



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

December 30, 2009

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Mr Allan Rigg, Director of Public Works  
City of Palos Verdes Estates  
340 Palos Verdes Drive West  
Palos Verdes Estates, CA 90274

Attention Ms. Floriza Rivera

Dear Mr Rigg

### **CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV0607D**

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 169,550 feet or approximately 58.2 percent of the City of Palos Verdes Estates' sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's 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)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

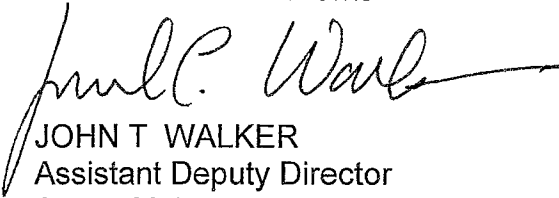
Mr. Allan Rigg  
December 30, 2009  
Page 2

The Condition Assessment Report provides you with details regarding the maintenance and structural condition of your City's sewer mainlines. This information can 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, in some instances, have been incorporated into our routine cleaning schedule. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of the 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](mailto:rswartz@dpw.lacounty.gov).

Very truly yours,

GAIL FARBER  
Director of Public Works



JOHN T. WALKER  
Assistant Deputy Director  
Sewer Maintenance Division

HK:gy

H:\SM\HOME\GYoung\Memos.Letters\1799

Enc.

bc: Programs Development (PILKER)

bc: JW, KL, RS, FV, File (Project Y0TV0607D), SPINDLE

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

PROJECT NAME:	Y0TV0607D	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	5/16/07-8/20/07	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	4	MAP PAGE(S):	1490, 1491, 1544, 1545
Report By:	Hanna Kebede	Report Date:	11/19/09

**INTRODUCTION**

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 169,550 feet or approximately 58.2 percent of the City of Palos Verdes Estates sewer system.

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

**PROJECT AREA AND DESCRIPTION**

Project Y0TV0607D included sewer lines located in both the Cities of Palos Verdes Estates and Rancho Palos Verdes. 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:

<b>Grade</b>	<b>Description</b>	<b>Estimate time to Failure</b>
<b>1:</b>	<b>EXCELLENT: Minor Defects.</b>	Unlikely in the foreseeable future
<b>2:</b>	<b>GOOD: Defects that have not begun to deteriorate.</b>	20 years or more
<b>3:</b>	<b>FAIR: Moderate defects that will continue to deteriorate.</b>	10 to 20 years
<b>4:</b>	<b>POOR: Severe defects that will become grade 5 defects within the foreseeable future.</b>	5 to 10 years
<b>5:</b>	<b>IMMEDIATE ATTENTION: Defects requiring immediate attention.</b>	Has failed or will likely fail within the next 5 years

## MAINTENANCE REPORT

Our inspection revealed that approximately 88.3 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 11.7 percent of the inspected pipe segments within the City of Palos Verdes Estates area had a PACP maintenance grade of 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 as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). Also included is a color-coded map showing the quick maintenance rating for each pipe segment.

### QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	97,276	57.4	552
2: Good	28,506	16.8	128
3: Fair	23,823	14.1	105
4: Poor	18,869	11.1	83
5: Immediate Attention	1,076	0.6	6
TOTAL	169,550	100.0	874

## STRUCTURAL REPORT

Our inspection revealed that approximately 98.8 percent of the inspected pipe segments within the City of Palos Verdes Estates were free of severe structural defects. However, the remaining 1.2 percent of the inspected pipe segments had a PACP structural grade of 4 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 10 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method 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 10 segments are included in Enclosure 4.

### QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	154,761	91.3	805
2: Good	7,401	4.4	34
3: Fair	5,259	3.1	25
4: Poor	1,424	0.8	6
5: Immediate Attention	705	0.4	4
TOTAL	169,550	100.0	874

## **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 Palos Verdes Estates according to the following schedule.

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>	<b>PERCENTAGE OF SYSTEM</b>	<b>STATUS</b>
2006-2007	Y0TV0607D	169,550	58.2	COMPLETE
2008-2009	Y0TV0809C	95,284	32.7	REPORT PENDING
2008-2009	Y0TV0809D	26,507	9.1	REPORT PENDING
TOTAL		291,341	100.0	

ENCLOSURE 1:

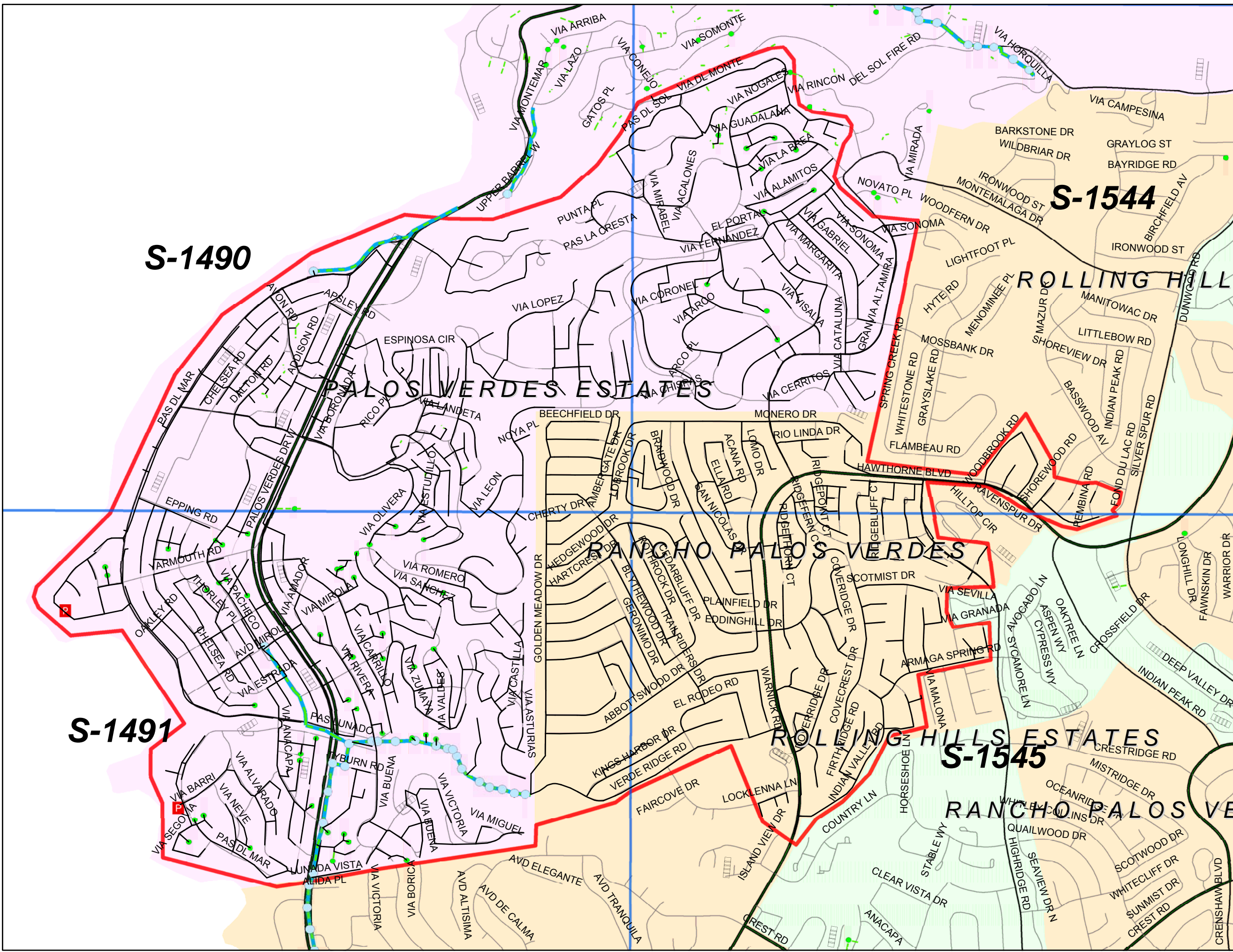
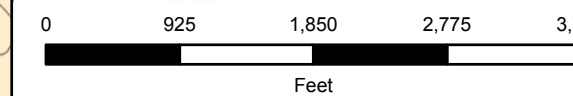
Project Overview Map



CCTV PROJECT

Y0TV0607D

Supervisorial District 4  
Cities of Palos Verdes Estates  
& Rancho Palos Verdes



Legend

- SMD Manholes**
  - Other
- Manhole Type**
  - Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
- SMD Pump Satations**
- SMD Treatment Plants**
- Maintained by Others:**
  - Trunk Sewerlines
  - Non SMD Sanitary Sewers
  - Trunk Mh
  - Non SMD Maintained MH
- Parcel Boundary
- SMD Operations Maps
- Y0TV0607D

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.

NOVEMBER 2009

0607D OVERVIEW.mxd

## ENCLOSURE 2:

- Quick Maintenance Rating Report  
Priority List
- Quick Maintenance Rating Map



ENCLOSURE 2  
 QUICK MAINTENANCE REPORT PRIORITY LIST  
 CITY OF PALOS VERDE ESTATES (Y0TV0607D)  
 as of 07/24/07

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken
1	5231	1491-0095	1491-0105	EASEMENT □ AVENIDA MIROLA	Root ball (blockage)	Rodder (completed 3/27/09)
2	5141	1491-0137	1491-0128	VIA BANDINI	Root ball and grease deposits	Rodder (completed 3/28/09)
3	5141	1544-0682	1544-0681	EASEMENT □ VIA CORONEL	Root ball	Rodder (completed 3/28/09)
4	5131	1491-0128	1491-0137	VIA BANDINI	Root ball	Rodder (completed 3/30/09)
5	5131	1491-0122-A	1491-CO	ALLEY BY PALOS VERDES DR	Root ball	Rodder (completed 3/30/09)
6	511A	1491-0226	1491-0225	EASEMENT □ NEVE	Root ball	Rodder (completed 3/27/09)
7	4H00	1490-0102	1490-0100	PALOS VERDES DR W	Camera underwater	Hydrojet (completed 2/25/09)
8	4B2H	1491-LH	1491-0232	VIA PACHECO	Camera underwater	Hydrojet (completed 2/24/09)
9	4A31	1544-0852	1490-0368	VIA MIRABEL	Root ball; camera underwater	Hydrojet (completed 7/09/09)
10	4432	1490-0470	1490-0469	EASEMENT □ CRESTA PL	Root ball	Rodder (completed 3/30/09)
11	4332	1490-0058	1491-0120	ALLEY NORTH □ PALOS VERDES DR	Root ball	Rodder (completed 3/31/09)
12	4331	1490-0184	1490-0185	ESPINOSA CR	Roots	Hydrojet (completed 2/19/09)
13	4300	1544-0928	1544-0690	VIA CERRITOS	Deposits: settled □ compacted	Millsaw (completed 3/30/09)
14	4232	1491-0317	1491-0316	VIA ROMERO	Roots; camera underwater	Hydrojet (completed 2/23/09)
15	4231	1491-0252	1491-0258	EASEMENT □ VIA FORTUNA	Roots; debris; camera underwater	Hydrojet (completed 9/21/09)
16	4231	1490-0127	1490-0126	VIA ESTUDILLO	Roots	Hydrojet (completed 2/19/09)
17	4231	1491-0227	1491-0226	EASEMENT □ NEVE	Roots	Hydrojet (completed 2/19/09)
18	4222	1544-0661	1544-0660	PASEO LA CRESTA	Camera underwater	Hydrojet (completed 2/25/09)
19	4221	1491-0249	1491-E	VIA GOLETA	Root ball	Rodder (completed 3/30/09)
20	4221	1490-0173	1490-0172	ESPINOSA CR	Roots fine	Hydrojet (completed 2/19/09)
21	4221	1491-0089	1491-0088	ALLEY NORTH VIA BANDINI	Root ball	Rodder (completed 4/01/09)
22	4214	1491-0708	1490-0494	VIA LEON	Roots	Hydrojet (completed 2/23/09)
23	4214	1490-0060	1490-0059	ALLEY NORTH PALOS VERDES DR	Roots	Hydrojet (completed 2/19/09)
24	4214	1544-0772	1544-0773	EASEMENT □ VIA FERNANDEZ	Roots	Hydrojet (completed 2/19/09)
25	4211	1490-0087	1490-0086	VIA BORONADA	Root ball	Rodder (completed 3/31/09)
26	4211	1544-0916	1544-0974	EASEMENT □ VIA DEL MONTE	Alignment 30 □	No action needed.
27	4200	1490-0101	1490-0078	VIA CORONEL	Camera underwater	Hydrojet (completed 2/25/09)
28	4200	1490-0038	1490-0028	CHELSEA RD	Roots; high water level	Hydrojet (completed 2/19/09)
29	4139	1491-0162	1491-0161	VIA PACHECO	Camera underwater	Hydrojet (completed 9/21/09)
30	4132	1490-0329	1490-0330	EASEMENT □ PALOS VERDES DR	Roots	Hydrojet (completed 9/19/09)
31	4131	1490-0185	1490-0186	ESPINOSA CR	Roots	Hydrojet (completed 10/15/09)
32	4131	1491-0728	1491-0745	VIA CORONEL	Root ball	Rodder (completed 3/27/09)
33	4131	1490-0135	1490-0126	VIA CORONEL	Roots	Hydrojet (completed 2/25/09)
34	4131	1490-0093	1490-0094	VIA BORONADA	Roots	Hydrojet (completed 2/23/09)
35	4131	1491-0326	1491-0327	VIA ESTUDILLO	Roots; high water level	Hydrojet (completed 2/23/09)

ENCLOSURE 2  
 QUICK MAINTENANCE REPORT PRIORITY LIST  
 CITY OF PALOS VERDE ESTATES (Y0TV0607D)  
 as of 07/24/07

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken
36	4131	1491-0344	1491-0343	VIA OLIVERA	Roots	Hydrojet (completed 2/23/09)
37	4131	1491-0121	1491-0045	EASEMENT VIA PACHECO	Roots	Hydrojet (completed 2/23/09)
38	4131	1491-0086	1491-0087	ALLEY NORTH AVENIDA MIROLA	Roots; deposits	Hydrojet (completed 2/26/09)
39	4131	1491-0026	1491-0027	EASEMENT CHELSEA RD	Root ball	Rodder (completed 2/20/09)
40	4131	1490-0460	1490-0461	EASEMENT PASEO LA CRESTA	Root ball	Rodder (completed 3/30/09)
41	4131	1544-0758	1544-0759	EASEMENT VIA CATALUNA	Roots	Hydrojet (completed 7/09/09)
42	4131	1491-0423	1491-S	ALLEY NORTH VIA ANACAPA	Roots	Hydrojet (completed 2/20/09)
43	4125	1544-1061	1544-1060	EASEMENT VIA CORONEL	Root ball	Rodder (completed 3/30/09)
44	4124	1544-0659	1544-0660	VIA VISALIA	Camera underwater	Hydrojet (completed 2/24/09)
45	4121	1544-0652	1544-0651	EASEMENT VIA CATALUNA	Root ball	Rodder (completed 9/10/09)
46	4121	1491-0285	1491-0286	ALLEY NORTH VIA ZUMAYA	Root ball	Rodder (completed 3/27/09)
47	4121	1491-0031	1491-0035	EASEMENT CHELSEA RD	Roots	Rodder (completed 3/30/09)
48	4121	1544-0757	1544-0758	EASEMENT VIA CATALUNA	Grease, roots	Hydrojet (completed 2/24/09)
49	411Q	1491-0155	1491-0157	VIA PACHECO	Sag	Hydrojet (completed 9/21/09)
50	411K	1491-0215	1491-0214	PASEO DEL MAR	Rootball	Hydrojet (completed 2/19/09)
51	411F	1491-0090	1491-0058	OAKLEY RD	Rootball	Rodder (completed 10/22/09)
52	4118	1491-0083	1491-0084	ALLEY NORTH VIA PENA	Roots, deposits, sag	Hydrojet (completed 2/23/09)
53	4116	1491-0063	1491-0062	EASEMENT THORLEY PL	Rootball	Rodder (completed 3/27/09)
54	4114	1491-0210	1491-CO	EASEMENT VIA SEGOUIA	Rootball	Rodder (completed 3/27/09)
55	4113	1490-0048	1490-0047	DALTON RD	Rootball , sag	Hydrojet (completed 2/19/09)
56	4113	1544-0826	1544-1006	EASEMENT VIA ACALONES	Alignment 45'	No action needed.
57	4112	1490-0162	1490-0161	RICO PL	Rootball	Rodder (completed 9/14/09)
58	4112	1491-0150	1491-0138	EASEMENT PALOS VERDES DR W	Rootball, sag	Rodder, Hydrojet (completed 3/27/09)
59	4112	1544-0973	1544-0972	EASEMENT VIA DEL MONTE	Alignment 35'	No action needed.
60	4111	1544-0830	1544-CO	EASEMENT VIA ACALONES	Alignment 35'	No action needed.
61	4111	1490-0166	1490-0094	VIA ESTUDILLO	Rootball	Rodder (completed 10/15/09)
62	4111	1491-0351	1491-0356	VIA SANCHEZ	Rootball	Rodder (completed 3/27/09)
63	4111	1490-0298	1490-0299	ALLEY NORTH PALOS VERDES DR W	Rootball ; sag	Hydrojet (completed 2/19/09)
64	4100	1490-0474	1490-CO	PALOS VERDES DR W	Rootball	Rodder (completed 3/27/09)
65	4100	1491-0386	1491-CO	VIA VALDES	Construction debris	Millsay, hydrojet (completed 9/10/09)
66	4100	1490-0080	1490-0081	PALOS VERDES DR W	Roots, sag	Hydrojet (completed 2/25/09)
67	4100	1491-0352	1491-0341	VIA SANCHEZ	Rootball	Hydrojet (completed 2/23/09)
68	4100	1491-0157	1491-0159	VIA PACHECO	High water level	Hydrojet (completed 2/23/09)
69	4100	1544-0716	1544-0715	EASEMENT CATALUNA PL	Rootball	Hydrojet (completed 7/29/09)
70	4100	1491-0290	1491-0291	LA COSTA PL	Rootball	Rodder ( completed 3/31/09)

ENCLOSURE 2  
 QUICK MAINTENANCE REPORT PRIORITY LIST  
 CITY OF PALOS VERDE ESTATES (Y0TV0607D)  
 as of 07/24/07

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken
71	4100	1491-0272	1491-CO	EASEMENT □ VIA AMADOR	Alignment 45□	No action needed.
72	4100	1490-0110	1490-0111	EASEMENT □ VIA OLVERA	Alignment 25□	No action needed.
73	4100	1491-0080	1491-CO	EASEMENT □ PASEO LUNADO	Alignment 25□	No action needed.
74	4100	1490-0152	1490-0150	EASEMENT □ VIA CORONEL	Alignment 90□	No action needed.

The following line segments received a Quick Maintenance Rating of above 4000 due to the observation of root ball inside the lateral connection. CSMD does not maintain lateral lines; it is the responsibility of the parcel owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Therefore, these lines were not included on the Priority List above identified with maintenance deficiencies in need of immediate attention by CSMD.

Item	QMR	Start MH	End MH	Street	Observation
1	4232	1491-0317	1491-0316	VIA ROMERO	Root ball in lateral connection.
2	4132	1490-0329	1490-0330	EASEMENT □ PALOS VERDES DR W	Root ball in lateral connection.
3	4131	1490-0061	1491-0044	VIA PACHECO	Root ball in lateral connection.
4	411K	1491-0223	1491-0215	VIA NEVE	Root ball in lateral connection.
5	4116	1491-0174	1491-0173	VIA ANACAPA	Root ball in lateral connection.
6	4115	1490-0180	1490-0179	VIA MACHADO	Root ball in lateral connection.
7	4111	1491-0358	1491-0357	VIA ROMERO	Root ball in lateral connection.
8	4111	1490-0014	1490-0013	ALLEY NORTH □ CHELSEA RD	Root ball in lateral connection.
9	4111	1490-0039	1490-0038	CHELSEA RD	Root ball in lateral connection.
10	4100	1490-0297	1490-0498	VIA MARTINEZ	Root ball in lateral connection.
11	4100	1490-0158	1490-0157	VIA ZURITA	Root ball in lateral connection.
12	4100	1490-0195	1490-0194	VIA LANDETA	Root ball in lateral connection.
13	4100	1490-0115	1490-0116	VIA ESTUDILLO	Root ball in lateral connection.
14	4100	1490-0012	1490-0013	ALLEY NORTH □ CHELSEA RD	Root ball in lateral connection.
15	4100	1490-0008	1490-0009	PASEO DEL MAR	Root ball in lateral connection.

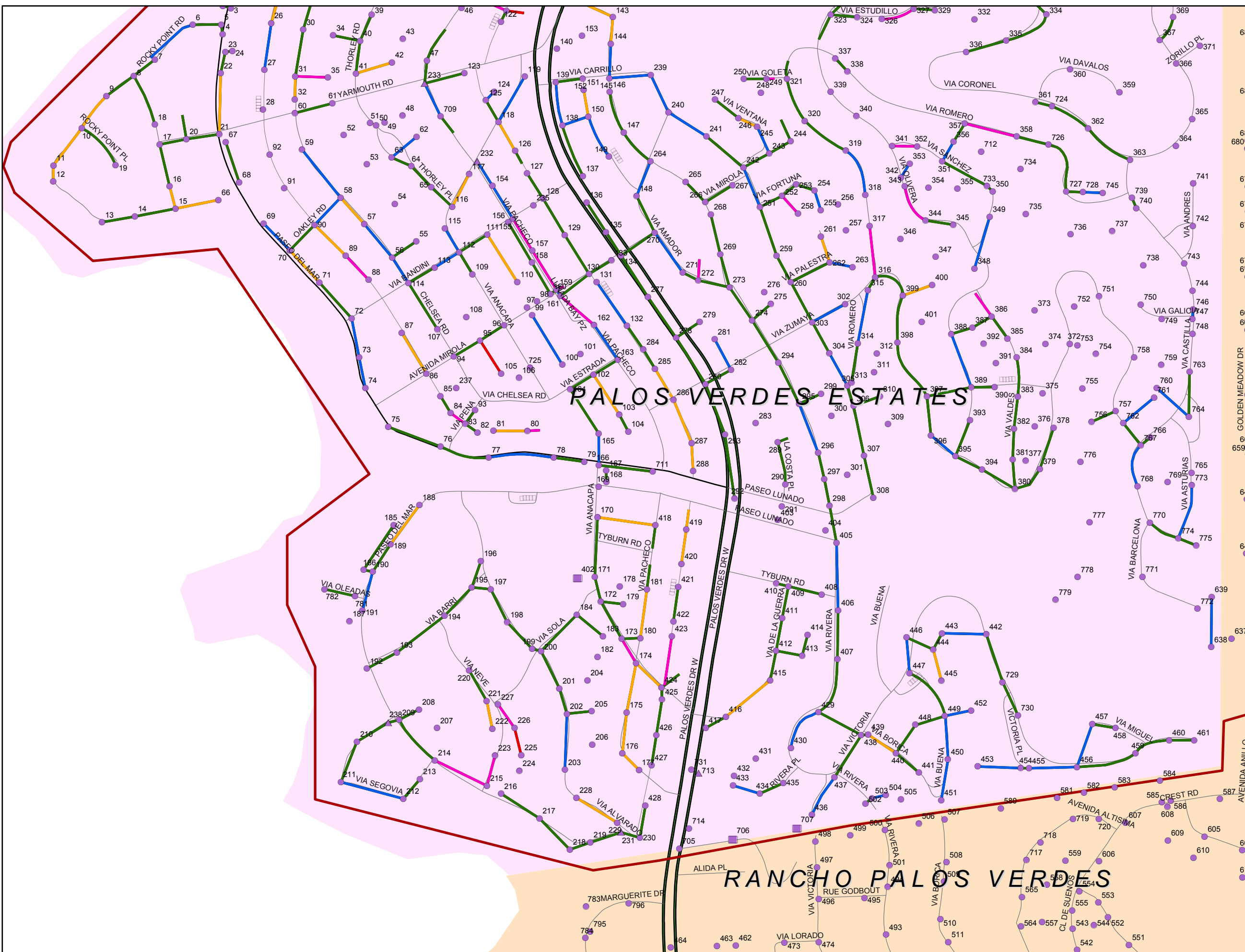
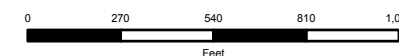
# ENCLOSURE 2

CCTV PROJECT

## Y0TV0607D

Supervisory District 4  
Palos Verdes Estates

### QUICK MAINTENANCE RATING (QMR)



### Legend

SMD sanitary Sewers

- QMR**
- 1: EXCELLENT
  - 2: GOOD
  - 3: FAIR
  - 4: POOR
  - 5: IMMEDIATE ATTENTION

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Satations

Maintained by Others:

- Trunk Sewerlines
- SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607D

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.

NOVEMBER 2009



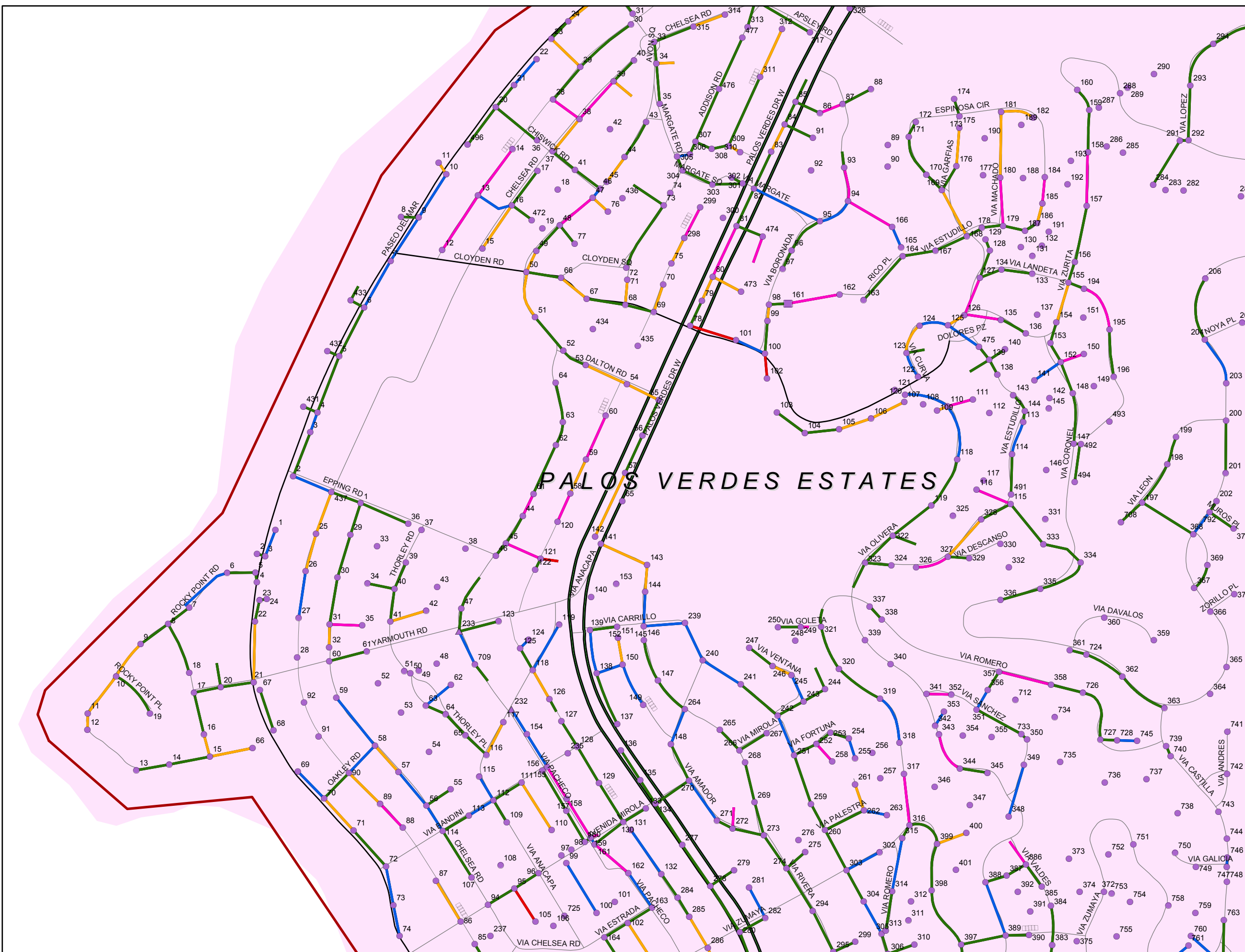
# ENCLOSURE 2

CCTV PROJECT

## Y0TV0607D

Supervisory District 4  
Palos Verdes Estates

### QUICK MAINTENANCE RATING (QMR)



### Legend

SMD sanitary Sewers

- QMR**
- 1: EXCELLENT
  - 2: GOOD
  - 3: FAIR
  - 4: POOR
  - 5: IMMEDIATE ATTENTION

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Satations

Maintained by Others:

- Trunk Sewerlines
- SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607D

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.

NOVEMBER 2009

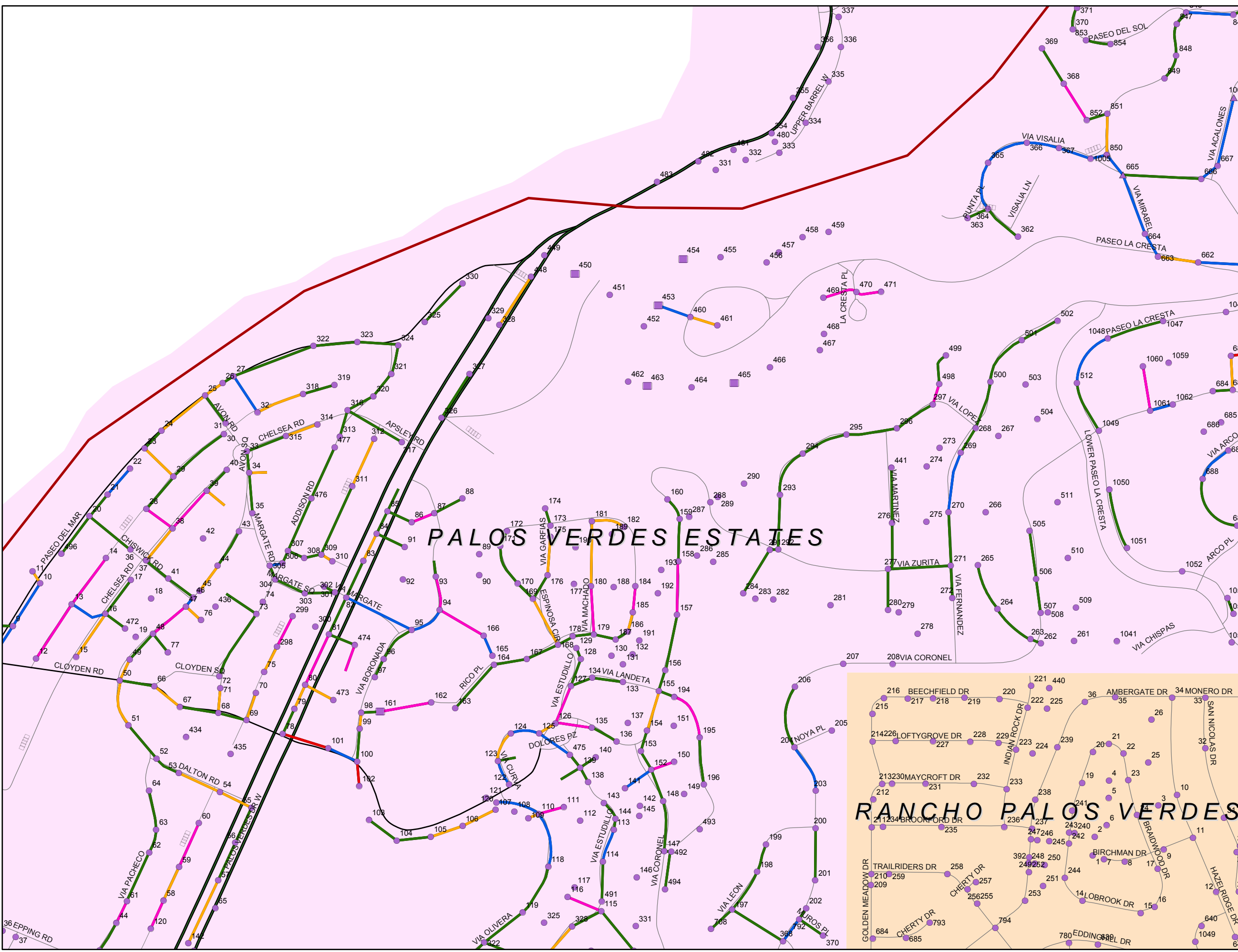
# ENCLOSURE 2

CCTV PROJECT

## Y0TV0607D

Supervisory District 4  
Palos Verdes Estates

### QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD sanitary Sewers

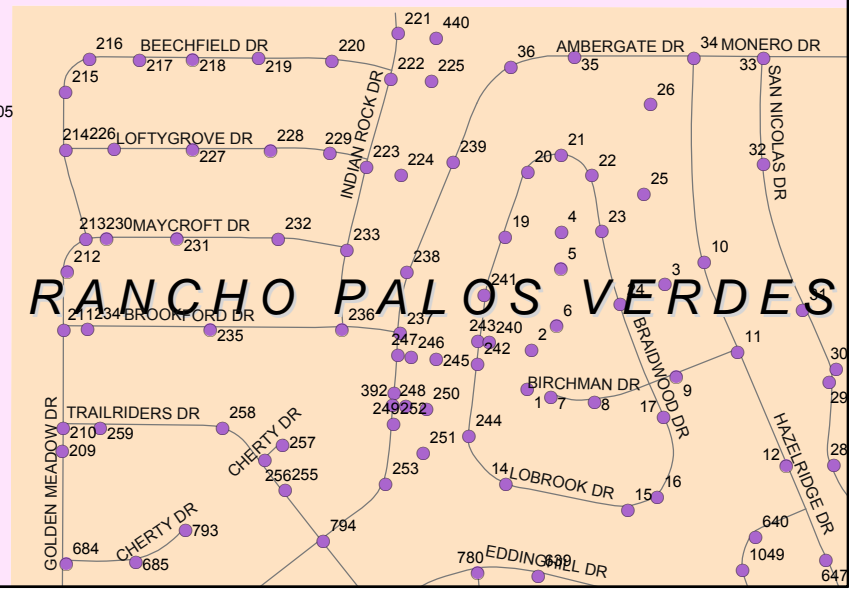
- QMR**
- 1: EXCELLENT
  - 2: GOOD
  - 3: FAIR
  - 4: POOR
  - 5: IMMEDIATE ATTENTION

#### SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Satations

#### Maintained by Others:

- Trunk Sewerlines
- SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607D



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.

NOVEMBER 2009



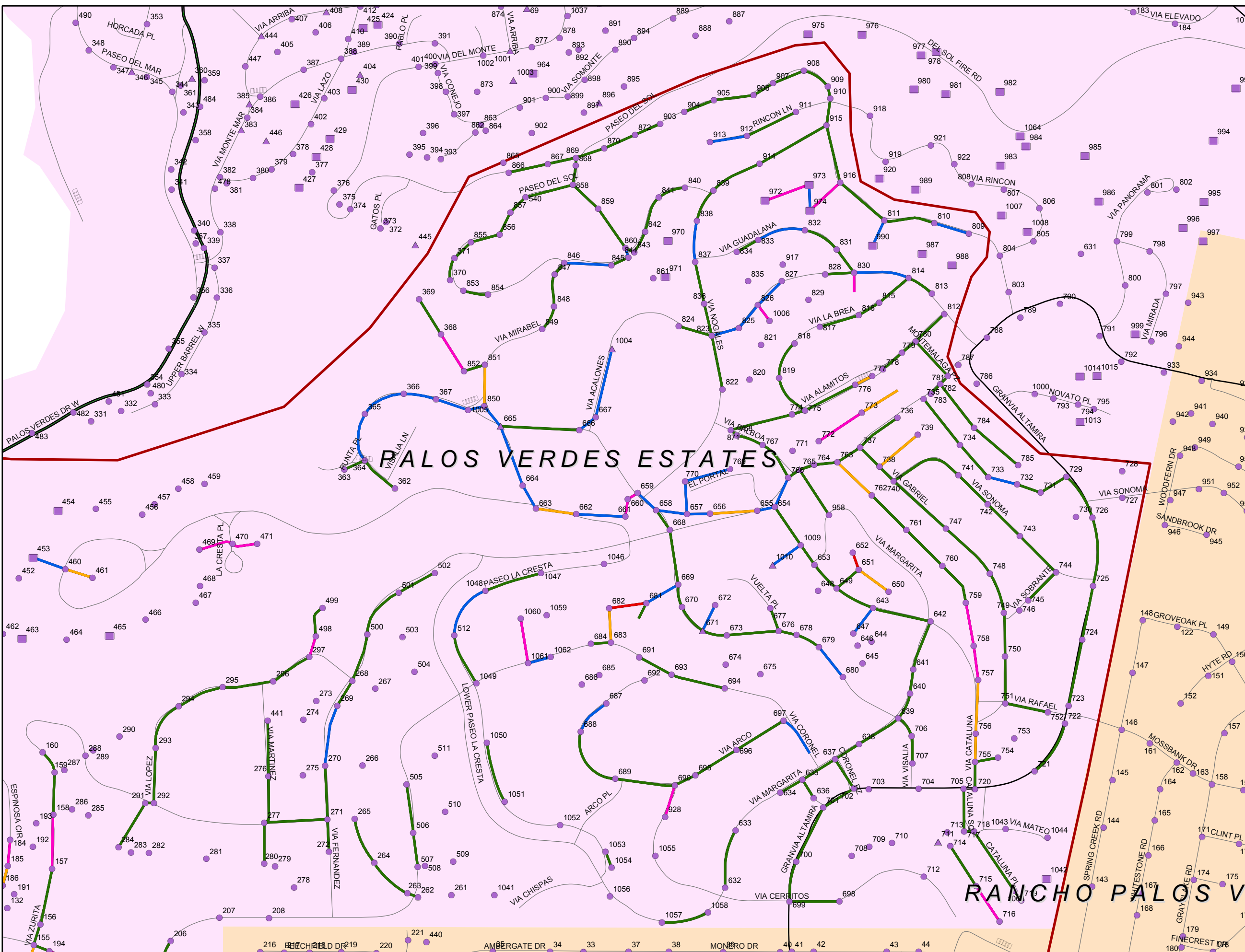
# ENCLOSURE 2

CCTV PROJECT

## Y0TV0607D

Supervisory District 4  
Palos Verdes Estates

### QUICK MAINTENANCE RATING (QMR)



### Legend

**SMD sanitary Sewers**

- QMR**
- 1: EXCELLENT
  - 2: GOOD
  - 3: FAIR
  - 4: POOR
  - 5: IMMEDIATE ATTENTION

**SMD Manholes**

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Satations

**Maintained by Others:**

- Trunk Sewerlines
- SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607D

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.

NOVEMBER 2009

## ENCLOSURE 3:

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

**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF PALOS VERDE ESTATES (Y0TV0607D)**  
**as of 07 24 07**

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5143	1491-0639	1491-0638	EASEMENT VIA BARCELONA	Broken and fractures: 140'; multiple fractures and cracks	Lining: MH to MH	343
2	5141	1491-0167	1491-0166	PASEO LUNADO	Broken: 72'	Structural integrity in tact. No action needed.	-
3	5122	1491-0424	1491-0174	VIA ANACAPA	Hole with soil visible: 175'	Linining: MH to MH	196
4	5100	1491-0174	1491-0173	VIA ANACAPA	Hole with soil visible: 102'	Structural integrity in tact. No action needed.	-
5	4300	1491-0031	1491-0035	EASEMENT CHELSEA RD	Broken and fractures: 157'	Lining: MH to MH	189
6	4131	1491-0163	1491-0162	VIA PACHECO	Fractures: 65', 86'	Structural integrity in tact. No action needed.	-
7	4121	1491-0457	1491-0456	EASEMENT VIA VICTORIA	Fracture multiple : 279'	Structural integrity in tact. No action needed.	-
8	4121	1491-0154	1491-0155	VIA PACHECO	Hole with concrete visible (repair patch): 32'	Structural integrity in tact. No action needed.	-
9	4111	1544-0823	1544-0825	VIA ACALONES	Hole at base of MH 1544-0823; concrete pipe	CSMD will repair MH base. Lining: MH to MH	172
10	4100	1491-0303	1491-0302	VIA ZUMAYA	Broken MH base (1491-0302)	CSMD will repair MH base.	-

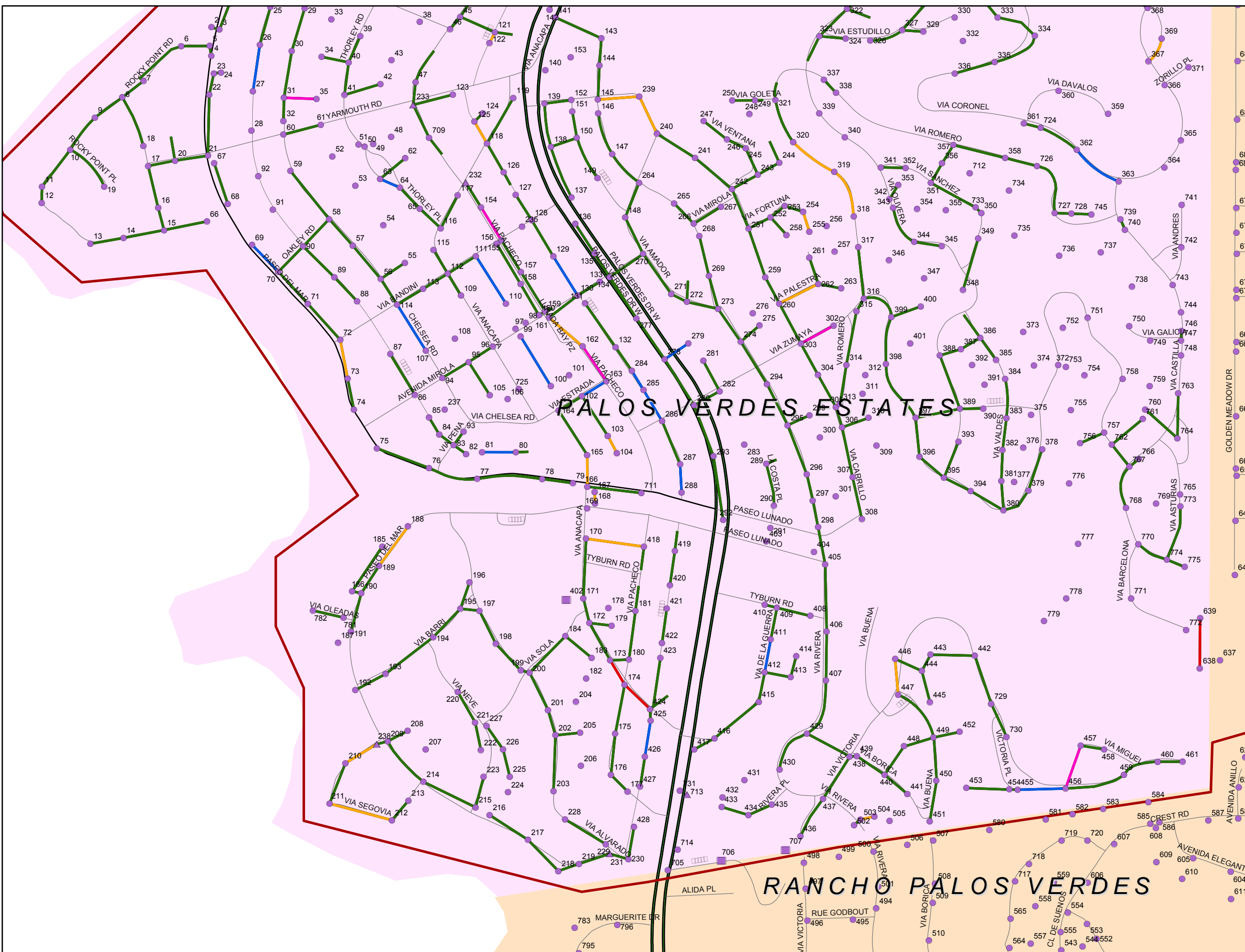
# ENCLOSURE 3

CCTV PROJECT

## Y0TV0607D

Supervisorial District 4  
Palos Verdes Estates

### QUICK STRUCTURAL RATING (QSR)



#### Legend

**SMD sanitary Sewers**

- QSR**
- 1: EXCELLENT (Green line)
  - 2: GOOD (Blue line)
  - 3: FAIR (Yellow line)
  - 4: POOR (Pink line)
  - 5: IMMEDIATE ATTENTION (Red line)

**SMD Manholes**

- Other (Circle with dot)
- Manhole Type
  - Standard (Purple circle)
  - DROP (Purple triangle)
  - Shallow (Purple square)
  - Trap (Purple diamond)
  - Siphon (Purple circle with cross)
- SMD Pump Satations (Red square with 'P')

**Maintained by Others:**

- Trunk Sewerlines (Thick green line)
- SMD Treatment Plants (WTP) (Black rectangle)
- Non SMD Sanitary Sewers (Dashed green line)
- Trunk Mh (Blue circle)
- Non SMD Maintained MH (Green circle)
- SMD Operations Maps (Blue outline)
- Y0TV0607D (Red outline)

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.

NOVEMBER 2009



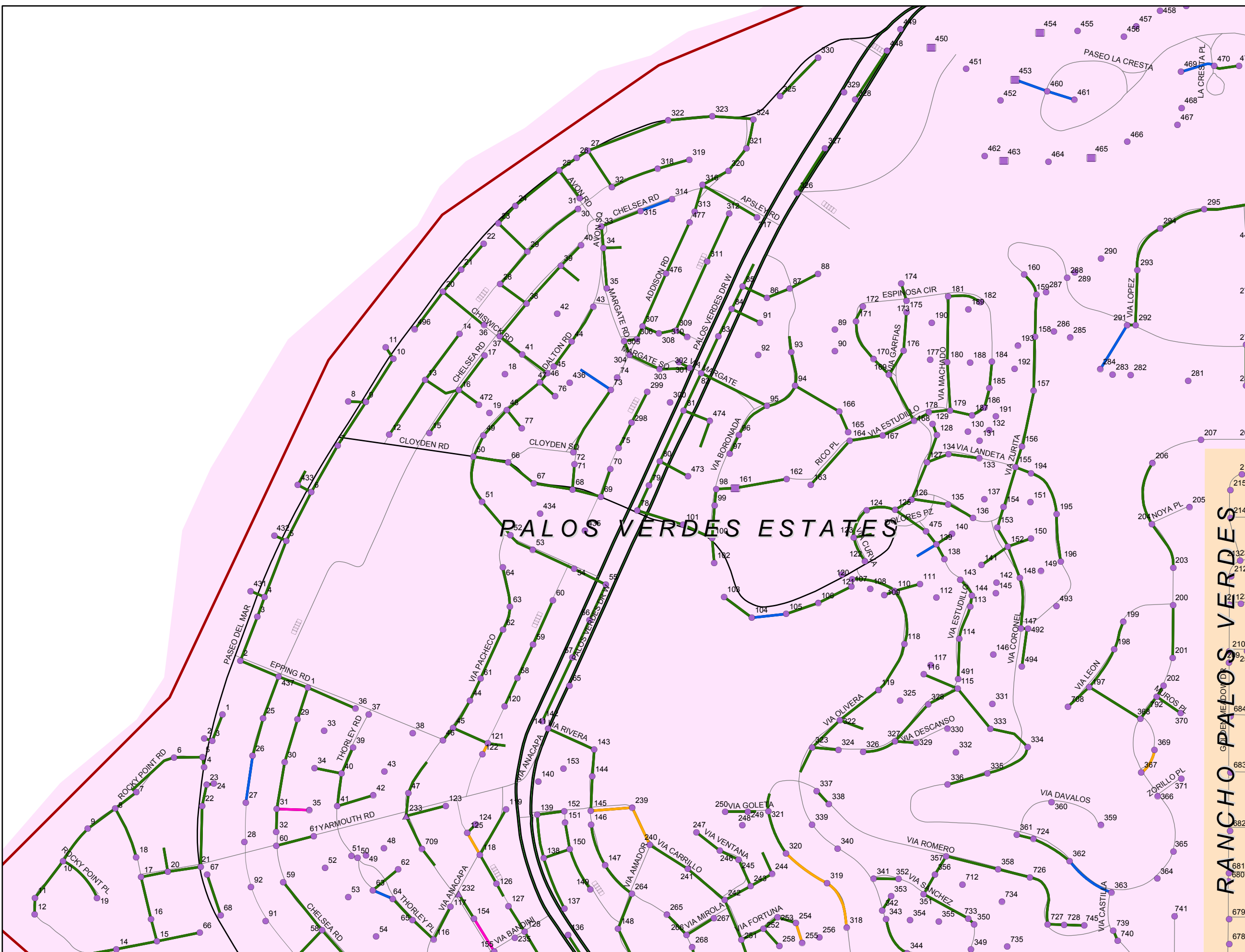
# ENCLOSURE 3

CCTV PROJECT

## Y0TV0607D

Supervisorial District 4  
Palos Verdes Estates

### QUICK STRUCTURAL RATING (QSR)



- #### Legend
- SMD sanitary Sewers**
- QSR**
- 1: EXCELLENT
  - 2: GOOD
  - 3: FAIR
  - 4: POOR
  - 5: IMMEDIATE ATTENTION
- SMD Manholes**
- Other
- Manhole Type**
- Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
  - SMD Pump Satations
- Maintained by Others:**
- Trunk Sewerlines
  - SMD Treatment Plants
  - Non SMD Sanitary Sewers
  - Trunk Mh
  - Non SMD Maintained MH
  - SMD Operations Maps
  - Y0TV0607D

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.

NOVEMBER 2009

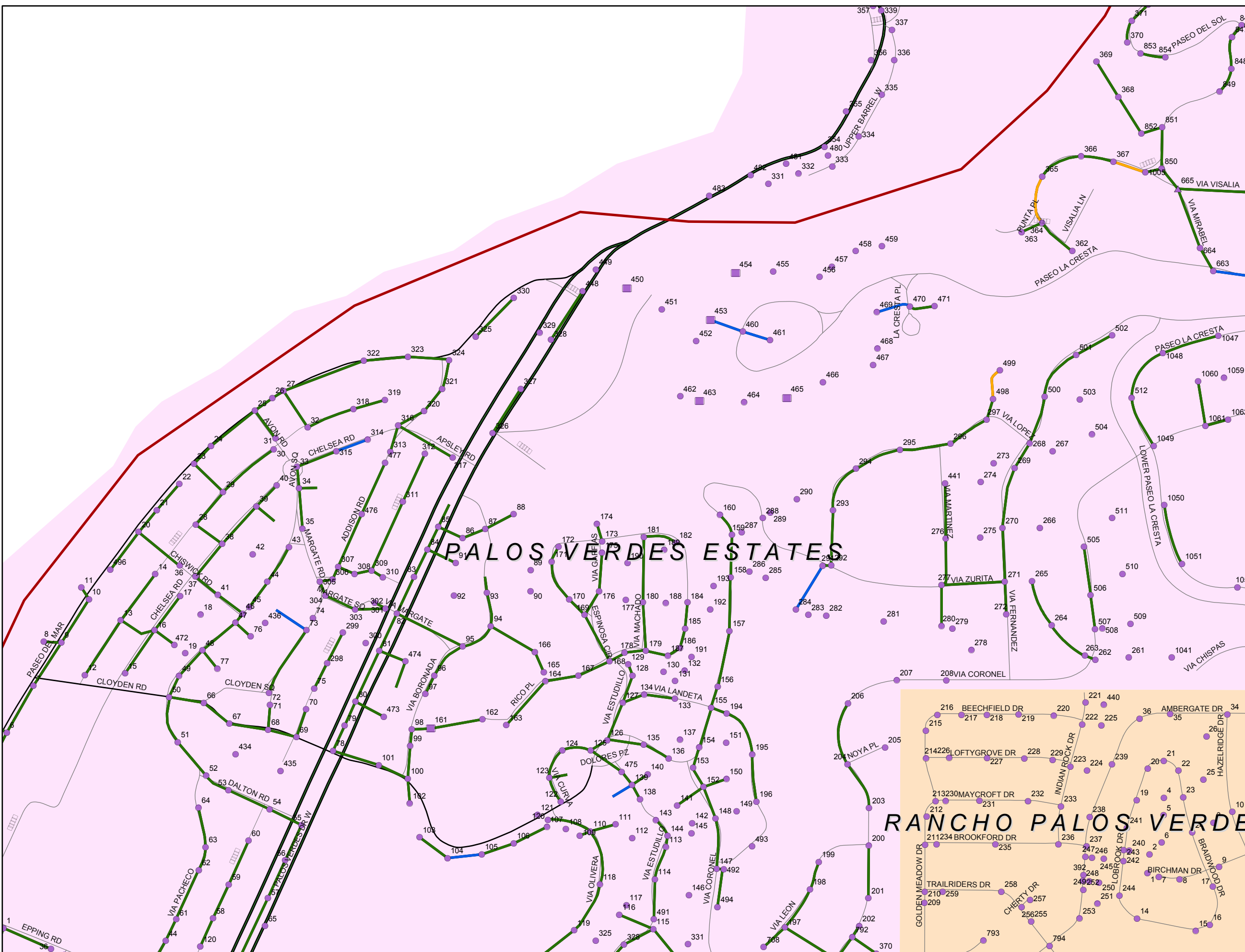
# ENCLOSURE 3

CCTV PROJECT

## Y0TV0607D

Supervisory District 4  
Palos Verdes Estates

### QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD sanitary Sewers

##### QSR

- 1: EXCELLENT
- 2: GOOD
- 3: FAIR
- 4: POOR
- 5: IMMEDIATE ATTENTION

#### SMD Manholes

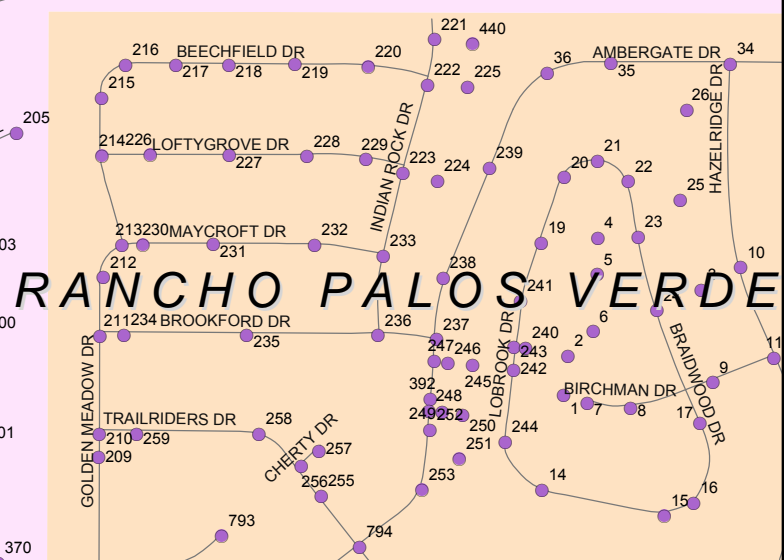
Other

#### Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Satations

#### Maintained by Others:

- Trunk Sewerlines
- SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0607D



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.

NOVEMBER 2009



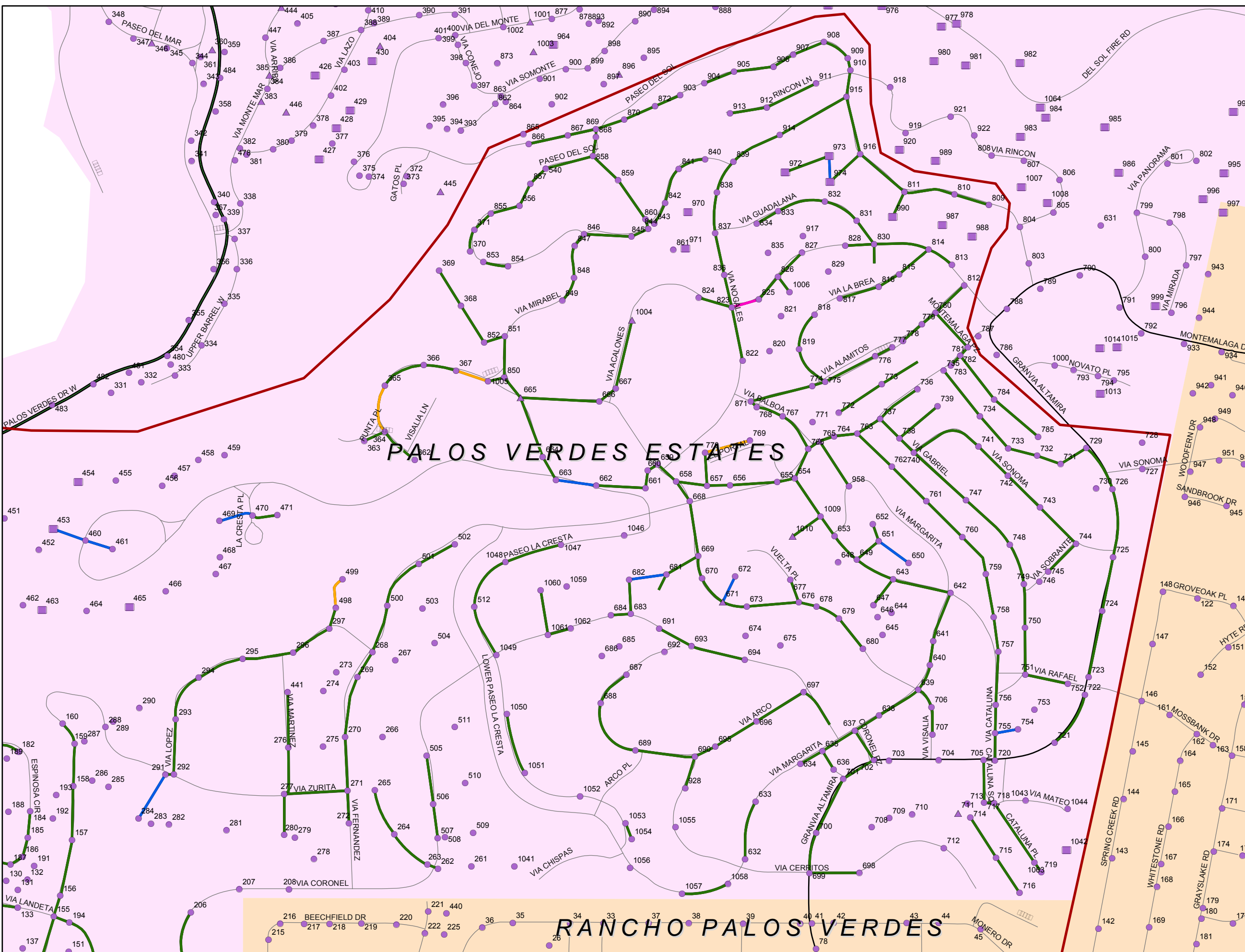
# ENCLOSURE 3

CCTV PROJECT

## Y0TV0607D

Supervisory District 4  
Palos Verdes Estates

### QUICK STRUCTURAL RATING (QSR)



#### Legend

##### SMD sanitary Sewers

- QSR**
- 1: EXCELLENT (Green line)
  - 2: GOOD (Blue line)
  - 3: FAIR (Yellow line)
  - 4: POOR (Pink line)
  - 5: IMMEDIATE ATTENTION (Red line)

##### SMD Manholes

- Other (Circle with dot)
- Manhole Type
  - Standard (Purple dot)
  - DROP (Purple triangle)
  - Shallow (Purple square)
  - Trap (Purple diamond)
  - Siphon (Purple circle with cross)
- SMD Pump Satations (Red square with 'P')

##### Maintained by Others:

- Trunk Sewerlines (Thick green line)
- SMD Treatment Plants (WTP box)
- Non SMD Sanitary Sewers (Dashed green line)
- Trunk Mh (Light blue circle)
- Non SMD Maintained MH (Green dot)
- SMD Operations Maps (Blue outline)
- Y0TV0607D (Red outline)

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.

NOVEMBER 2009

## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5



## Inspection report

Date: <b>06 18 2007</b>	P.O.☐ <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>547</b>	PSR: <b>79949</b>
Total Pipe Length: <b>227.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>Palos Verdes Estates</b>	Clean Date: <b>06 15 2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid ☐ <b>1491</b>

Street: <b>VIA ZUMAYA</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0303</b>
City: <b>PVE</b>	Year Renewed	End MH: <b>1491-0302</b>
Location Code: <b>Light Highway</b>	Tape/Media ☐ <b>G312-022</b>	pipe length: <b>164.4 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia:Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0302 1491-0303 1491</b>	Lining Method:
	Category:

Remark::

1:375	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Downstream, Survey Begins	00:00:41	5491	
	5.00	Water Level, 5 ☐, within 8 inch: NO	00:02:43	5492	M 2
	110.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:25	5493	
	164.40	Broken, from 2 to 5 o'clock, within 8 inch: NO	00:07:31	5494	S 4
	164.40	Manhole, within 8 inch: NO, Remarks: Buried, Upstream Survey E	00:08:31	5495	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2100	4	2	6	4	2	3



## Inspection report

Date: <b>05 21 2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>428</b>	PSR: <b>76614</b>
Total Pipe Length: <b>205.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>Palos Verdes Estates</b>	Clean Date: <b>05 18 2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid # <b>1544</b>

Street: <b>VIA ACALONES</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1544-0823</b>
City: <b>Palos Verdes Estates</b>	Year Renewed:	End MH: <b>1544-0825</b>
Location Code: <b>Light Highway</b>	Tape/Media # <b>G312-003</b>	pipe length: <b>172.5 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia: Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0825 1544-0823 1544</b>	Lining Method:
	Category:

Remark::

1:400	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Downstream #1544-0823, Su	00:01:23	3884	
	1.00	Hole, from 1 to 3 o'clock, within 8 inch: YES	00:02:32	3885	S 4
	1.00	Joint Offset Medium, within 8 inch: YES	00:03:19	3886	S 1
	6.00	Water Level, 5 #, within 8 inch: NO	00:04:05	3887	M 2
	26.50	Alignment Left, within 8 inch: NO	00:04:47	3888	M 1
	170.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:20	3889	
	172.20	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:09:44	3890	
	172.50	Manhole, within 8 inch: NO, Remarks: Upstream, Survey Ends	00:10:51	3891	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2111	5	3	8	2.5	1.5	2



## Inspection report



Date: <b>07.13.2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>773</b>	PSR: <b>80125</b>
Total Pipe Length: <b>236.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDES</b>	Clean Date: <b>07.12.2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid # <b>1491</b>

**ESTATES**

Street: <b>VIA PACHECO</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0154</b>
City: <b>PVE</b>	Year Renewed:	End MH: <b>1491-0155</b>
Location Code: <b>Light Highway</b>	Tape/Media # <b>G312-038</b>	pipe length: <b>222.8 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia: Height: <b>Circular 10"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0154 1491-0155 1491</b>	Lining Method:
	Category:

Remark::

1:500	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:45	7488	
	<u>6.00</u>	Water Level, 10", within 8 inch: NO	00:02:05	7489	M 2
	<u>8.10</u>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:33	7490	
	<u>8.10</u>	Fracture Circumferential, from 3 to 6 o'clock, within 8 inch: YES	00:02:56	7491	S 2
	<u>18.40</u>	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:03:53	7492	
	<u>29.70</u>	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:04:47	7493	
	<u>31.90</u>	Repair Patch, from 9 to 2 o'clock, within 8 inch: NO, Remarks: repair	00:05:45	7494	
	<u>31.90</u>	Fracture Multiple, from 2 to 1 o'clock, within 8 inch: NO	00:06:12	7495	S 4
	<u>60.70</u> S1	Water Level Sag, 25", within 8 inch: NO, Start	00:07:44	7496	M 2
	<u>108.30</u>	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:09:39	7497	
	<u>119.90</u> F1	Water Level Sag, 25", within 8 inch: NO, End	00:10:13	7498	M 2
	<u>120.10</u>	Water Level, 15", within 8 inch: NO	00:10:35	7499	M 2
	<u>140.20</u>	Water Level, 10", within 8 inch: NO	00:11:23	7500	M 2
	<u>156.80</u>	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:14	7501	
	<u>174.40</u>	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:13:13	7502	
	<u>211.40</u>	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:14:47	7503	
	222.80	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:15:57	7504	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2500	6	10	16	3	2	2.29



## Inspection report

Date: <b>06 21 2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>596</b>	PSR: <b>79880</b>
Total Pipe Length: <b>285.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDES</b>	Clean Date: <b>06 20 2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid # <b>1491</b>

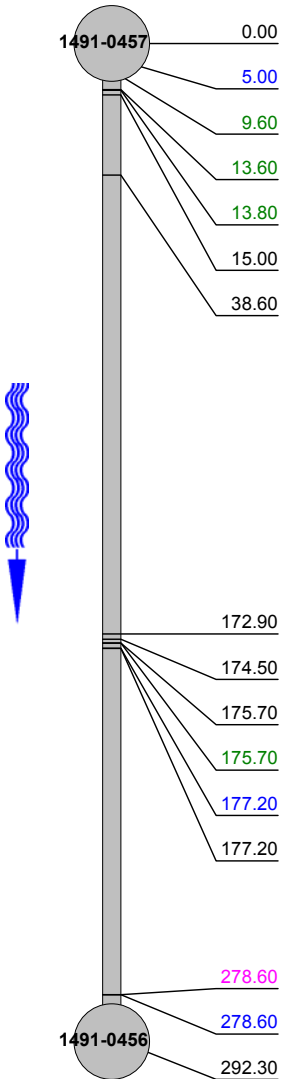
**ESTATES**

Street: <b>0</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0457</b>
City: <b>PVE</b>	Year Renewed:	End MH: <b>1491-0456</b>
Location Code: <b>Easement Right of Way</b>	Tape/Media # <b>G312-025</b>	pipe length: <b>292.3 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia: Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0457 1491-0456 1491</b>	Lining Method:
	Category:

Remark::

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:42	5881	
	5.00	Water Level, 5", within 8 inch: NO	00:01:39	5882	M 2
	9.60	Joint Offset Medium, within 8 inch: YES	00:02:16	5883	S 1
	13.60	Alignment Right, within 8 inch: NO	00:02:47	5884	M 1
	13.80	Joint Offset Medium, within 8 inch: YES	00:03:17	5885	S 1
	15.00	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:57	5886	
	38.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:48	5887	
	172.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:44	5888	
	174.50	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:08:13	5889	
	175.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:52	5890	
	175.70	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:09:13	5891	M 1
	177.20	Fracture Circumferential, from 2 to 6 o'clock, within 8 inch: YES	00:10:05	5892	S 2
	177.20	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:10:53	5893	
	278.60	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: NO	00:14:07	5894	S 4
	278.60	Roots Fine Barrel, from 4 to 6 o'clock, within 8 inch: NO	00:14:36	5895	M 2
	292.30	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:16:01	5896	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2212	8	6	14	2	1.5	1.75





## Inspection report

Date: <b>07.10.2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>726</b>	PSR: <b>80137</b>
Total Pipe Length: <b>280.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDES</b>	Clean Date: <b>07.09.2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid # <b>1491</b>

**ESTATES**

Street: <b>VIA PACHECO</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0163</b>
City: <b>PVE</b>	Year Renewed:	End MH: <b>1491-0162</b>
Location Code: <b>Light Highway</b>	Tape/Media # <b>G312-035</b>	pipe length: <b>259.1 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 10"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0163.1491-0162.1491</b>	Lining Method:
	Category:

Remark::

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:34	7016	
	6.00	Water Level, 20", within 8 inch: NO, Remarks: due to pump station	00:01:41	7017	M 2
	50.30	Water Level, 10", within 8 inch: NO	00:03:11	7018	M 2
	62.70	Crack Multiple, from 3 to 1 o'clock, within 8 inch: YES	00:04:03	7019	S 3
	63.70	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:04:47	7020	
	64.80 S1	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES, Start	00:05:18	7021	S 2
	70.30 F1	Fracture Circumferential, from 3 to 9 o'clock, within 8 inch: YES, End	00:05:57	7022	S 2
	85.60	Fracture Multiple, from 2 to 1 o'clock, within 8 inch: YES	00:06:57	7023	S 4
	122.90	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:08:54	7024	
	145.90	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO	00:10:20	7025	
	186.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:06	7026	
	201.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:04	7027	
	257.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:13	7028	
	259.10	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:15:50	7029	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	11	4	15	2.75	2	2.5



## Inspection report

Date: <b>07/18/2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>781</b>	PSR: <b>80326</b>
Total Pipe Length: <b>191.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDES</b>	Clean Date: <b>07/17/2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid # <b>1491</b>

**ESTATES**

Street: <b>0</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0031</b>
City: <b>PVE</b>	Year Renewed:	End MH: <b>1491-0035</b>
Location Code: <b>Easement Right of Way</b>	Tape/Media # <b>G312-039</b>	pipe length: <b>189.1 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0035 1491-0031 1491</b>	Lining Method:
	Category:

Remark::

1:425	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Downstream Survey Begins	00:00:43	7613	
	<u>5.00</u>	Water Level, 5 □, within 8 inch: NO	00:02:22	7614	M 2
	15.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:03:06	7615	
	<u>25.50</u> <b>S1</b>	Alignment Left, 5 □, within 8 inch: NO, Start	00:03:55	7616	M 1
	<u>35.80</u> <b>F1</b>	Alignment Left, 5 □, within 8 inch: NO, End	00:04:37	7617	M 1
	41.30	Roots Fine Joint, from 5 to 1 o'clock, within 8 inch: YES	00:05:25	7618	
	78.40	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:06:56	7619	
	<u>107.00</u>	Alignment Left, 10 □, within 8 inch: NO	00:07:44	7620	M 1
	114.00	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:08:36	7621	
	<u>119.80</u>	Alignment Right, 5 □, within 8 inch: NO	00:08:58	7622	M 1
	<u>145.60</u>	Alignment Left, 5 □, within 8 inch: NO	00:10:00	7623	M 1
	<u>157.30</u> <b>S2</b>	Fracture Multiple, from 2 to 8 o'clock, within 8 inch: YES, Start	00:12:40	7624	S 4
	<u>157.30</u>	Broken, from 5 to 7 o'clock, within 8 inch: NO	00:13:14	7625	S 4
	<u>157.30</u>	Deformed, 10 □, within 8 inch: NO	00:13:40	7626	S 4
	<u>157.30</u>	Roots Medium Barrel, from 7 to 1 o'clock, 20 □, within 8 inch: NO	00:14:07	7627	M 4
	<u>159.30</u>	Roots Fine Barrel, from 7 to 6 o'clock, within 8 inch: NO	00:16:04	7628	M 2
	<u>160.00</u> <b>F2</b>	Fracture Multiple, from 2 to 8 o'clock, within 8 inch: YES, End	00:16:45	7629	S 4
	166.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:17:28	7630	
	176.10	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:18:16	7631	
	182.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:57	7632	
	189.10	Manhole, within 8 inch: NO, Remarks: Upstream Survey Ends	00:19:46	7633	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4400	4122	16	13	29	4	1.63	2.42



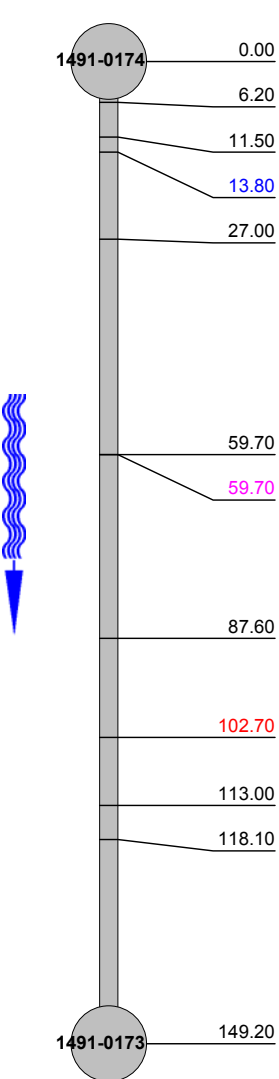
## Inspection report

Date: <b>07.11.2007</b>	P.O. # <b>Y0TV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Martin Garcia</b>	section number: <b>1290</b>	PSR: <b>80151</b>
Total Pipe Length: <b>170.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDE ESTATES</b>	Clean Date: <b>07.06.2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #

Street: <b>VIA ANACAPA</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0174</b>
City: <b>PVE</b>	Year Renewed	End MH: <b>1491-0173</b>
Location Code: <b>Light Highway</b>	Tape/Media # <b>M313-021</b>	pipe length: <b>149.2 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia: Height: <b>Circular 8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area:	Lining Method:
	Category:

Remark::

1:350	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1491-0174-SUR	00:00:34	13292	
	6.20	Roots Fine Joint, from 5 to 7 o'clock, within 8 inch: YES	00:02:15	13293	
	11.50	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	00:03:34	13294	
	<u>13.80</u>	Water Level, 5", within 8 inch: NO	00:04:02	13295	M 2
	27.00 <b>S1</b>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:04:35	13296	
	59.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:06	13297	
	<u>59.70</u>	Roots Ball Lateral, at 9 o'clock, 75", within 8 inch: NO	00:06:31	13298	M 4
	87.60 <b>F1</b>	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:23:31	13299	
	<u>102.70</u>	Hole Soil Visible, from 12 to 1 o'clock, within 8 inch: YES	00:24:14	13300, b	S 5
	113.00	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:25:03	13301	
	118.10	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:25:39	13302	
	149.20	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1491-0173-S	00:27:11	13303	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4121	5	6	11	5	3	3.67



## Inspection report

Date: <b>07/10/2007</b>	P.O.:	Weather: <b>Dry</b>	Surveyed By: <b>Martin Garcia</b>	section number: <b>1421</b>	PSR: <b>80154</b>
Total Pipe Length: <b>267.00</b>	Survey Customer: <b>YOTV0607D</b>	System Owner: <b>Palos Verde Estates</b>	Clean Date:	Pre-Cleaned: <b>Jetting</b>	Map Grid:

Street: <b>VIA ANACAPA</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0424</b>
City: <b>PVE</b>	Year Renewed:	End MH: <b>1491-0174</b>
Location Code: <b>Light Highway</b>	Tape/Media: <b>M315-004</b>	pipe length: <b>196.2 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"</b>
Use of Sewer:	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area:	Lining Method:
	Category:

Remark::

1:450	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1491-0424-SUR	00:00:35	14785	
	6.00	Water Level, 5", within 8 inch: NO	00:01:27	14786	M 2
	60.60	Fracture Circumferential, from 5 to 7 o'clock, within 8 inch: YES	00:03:30	14787	S 2
	102.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:24	14788	
	102.90	Roots Medium Lateral, at 3 o'clock, 30", within 8 inch: NO	00:05:46	14789	M 3
	110.60	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES	00:06:20	14790	
	115.70	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:07:03	14791	
	146.60	Roots Fine Joint, from 5 to 9 o'clock, within 8 inch: YES	00:08:14	14792	
	157.20	Roots Fine Joint, from 4 to 5 o'clock, within 8 inch: YES	00:09:02	14793	
	167.60	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:09:35	14794	
	172.60	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:10:20	14795	
	173.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:58	14796	
	173.90	Roots Medium Lateral, at 3 o'clock, 40", within 8 inch: NO	00:11:25	14797	M 3
	175.30	Hole, from 9 to 1 o'clock, within 8 inch: YES	00:12:22	14798, b	S 5
	175.30	Fracture Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:12:50	14799	S 2
	196.20	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1491-0174-S	00:14:17	14800	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5122	3221	9	8	17	3	2.67	2.83



## Inspection report

Date: <b>07.10.2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>722</b>	PSR: <b>80140</b>
Total Pipe Length: <b>42.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDES</b>	Clean Date: <b>07.09.2007</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid # <b>1491</b>

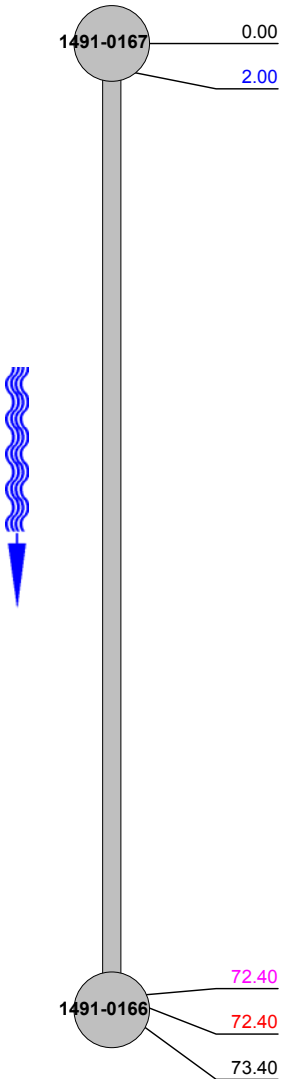
**ESTATES**

Street: <b>PASEO LUNADO</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0167</b>
City: <b>PVE</b>	Year Renewed	End MH: <b>1491-0166</b>
Location Code: <b>Yard</b>	Tape/Media # <b>G312-035</b>	pipe length: <b>73.4 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 10"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0167.1491-0166.1491</b>	Lining Method:
	Category:

Remark::

1:175	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:46	6995	
	2.00	Water Level, 10 #, within 8 inch: NO	00:02:17	6996	M 2
	72.40	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: NO	00:05:13	6997	S 4
	72.40	Broken, from 10 to 2 o'clock, within 8 inch: NO	00:06:04	6998, b	S 5
	73.40	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:07:06	6999	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2100	9	2	11	4.5	2	3.67



## Inspection report

Date: <b>06.15.2007</b>	P.O. # <b>YOTV0607D</b>	Weather: <b>Dry</b>	Surveyed By: <b>Gilbert Contreras</b>	section number: <b>537</b>	PSR: <b>79616</b>
Total Pipe Length: <b>226.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>PALOS VERDES</b>	Clean Date: <b>06.14.2007</b>	Pre-Cleaned: <b>Heavy Cleaning</b>	Map Grid # <b>1491</b>

**ESTATES**

Street: <b>0</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1491-0639</b>
City: <b>PVE</b>	Year Renewed	End MH: <b>1491-0638</b>
Location Code: <b>Easement Right of Way</b>	Tape/Media # <b>G312-021</b>	pipe length: <b>343.4 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 10"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0639 1491-0638 1491</b>	Lining Method:
	Category:

Remark::

1:775	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:33	5405	
	0.00	Water Level, 10 #, within 8 inch: NO	00:00:53	5406	M 2
	1.30	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:01:43	5407	
	46.90	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:3:10	5408	
	68.60	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:04:02	5409	S 1
	78.50	Fracture Circumferential, from 2 to 1 o'clock, within 8 inch: YES	00:04:55	5410	S 2
	113.90	Roots Fine Joint, at 1 o'clock, within 8 inch: YES, Start	00:06:16	5411	
	139.60	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:07:27	5412	S 4
	141.70	Broken, from 3 to 9 o'clock, within 8 inch: NO	00:08:14	5413, b	S 5
	144.80	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:09:04	5414	S 4
	175.50	Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES, Start	00:10:20	5415	S 3
	232.40	Roots Medium Joint, from 8 to 4 o'clock, 40 #, within 8 inch: YES	00:12:48	5416	
	233.50	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:16:11	5417	S 2
	324.20	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:22:01	5418	S 4
	339.10	Fracture Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:23:15	5419	S 2
	339.10	Roots Fine Joint, at 1 o'clock, within 8 inch: YES, End	00:23:41	5420	
	339.10	Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES, End	00:24:02	5421	S 3
	343.40	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:25:10	5422	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5143	2100	30	2	32	3	2	2.91