



MARK PESTRELLA, Acting Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
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Telephone: (626) 458-5100
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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE

REFER TO FILE: **SM-1**

April 6, 2017

Mr. Michael Throne
Director of Public Works
City of Rancho Palos Verdes
30940 Hawthorne Boulevard
Rancho Palos Verdes, CA 90275

Attention Mr. Ron Drago

Dear Mr. Throne:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT CITY OF RANCHO PALOS VERDES

This letter is to inform you that the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed a Sewer Condition Assessment Program of the City of Rancho Palos Verdes' sewer system.

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

Mr. Michael Throne
April 6, 2017
Page 2

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz, Sewer Maintenance Division, at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov.

Very truly yours,

MARK PESTRELLA
Director of Public Works



WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

EL:sb

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Enc.

bc: Programs Development (Gutierrez), RS, KE, FILE (Project Y0TV1112C), SPINDLE

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

PROJECT NAME:	Y0TV1112C	PROJECT MGR:	Eric Liu
PROJECT DATE:	03/11/2015	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	4	MAP PAGE(S):	1491,1492,1545,1546,1599, 1653,1654
Report By:	Eric Liu	Report Date:	11/14/16

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the condition assessment of 231,695 feet or 31.9 percent of the City of Rancho Palos Verdes' (City) entire sewer system.

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

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

The District has now completed the condition assessment of all 725,288 feet of the City's sewer system. Previous Condition Assessment Reports dated February 9 and August 5, 2009, January 5, 2012, and June 5, 2013, have been provided to your City. A copy of the reports can also be found in the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>.

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

PROJECT AREA AND DESCRIPTION

Project No. Y0TV1112C included sewer lines located in the unincorporated County of Los Angeles and the Cities of Lomita, Paramount, Rolling Hills Estates, Rolling Hills, and Santa Clarita. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or structural defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects while a grade of 5 indicates that a pipe segment may require immediate attention. A legend of the five possible defect grades is as follows:

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

MAINTENANCE REPORT

Our inspection revealed that approximately 51.4 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 48.6 percent of the pipe segments within the City had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our periodic cleaning program.

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	88,159	38.0	444
2: Minor to Moderate	30,987	13.4	147
3: Moderate	47,960	20.7	215
4: Significant	60,404	26.1	255
5: Most Significant	4,185	1.8	19
TOTAL	231,695	100.0	1,080

Lateral Notices

Also included in the maintenance inspection reports are private lateral deficiencies discovered during the assessment of the mainline. The District does not maintain lateral lines. It is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Letters will be sent to property owners in your City notifying them of the maintenance issues detected in their laterals. A sample lateral notice letter is provided in Enclosure 2 for your reference.

High Water Levels

Our inspection revealed that approximately 0.65 percent of the segments inspected exhibited visual signs associated with high water levels. The capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicate the camera was underwater or there were sags in the line. A sewer pipe is considered at capacity when 50 percent of the diameter of the sewer pipe is full of water. However, there are conditions in which the Water Level or Water Mark reaches 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage caused by debris in the sewer line, or a sag in the line. Therefore, additional review of these pipe segments will be conducted to determine if any capacity issues exist.

All sewer pipes where the Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity have been listed and analyzed on the High Water Level Table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

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

Infiltration

Our inspection revealed that infiltration was not detected in any pipe segments in your City's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 79.1 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 20.9 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown on page 4. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 221 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. A map showing the sewer lines, which need lining and point repairs, is also provided in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	113,776	49.1	556
2: Minor to Moderate	21,479	9.3	96
3: Moderate	47,931	20.7	207
4: Significant	36,217	15.6	163
5: Most Significant	12,292	5.3	58
TOTAL	231,695	100.0	1,080

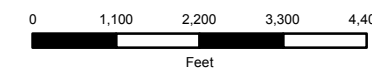
ENCLOSURE 1:

Project Overview Map

ENCLOSURE 1
CCTV PROJECT
Y0TV1112C

CITY OF RANCHO
PALOS VERDES

OVERVIEW MAP

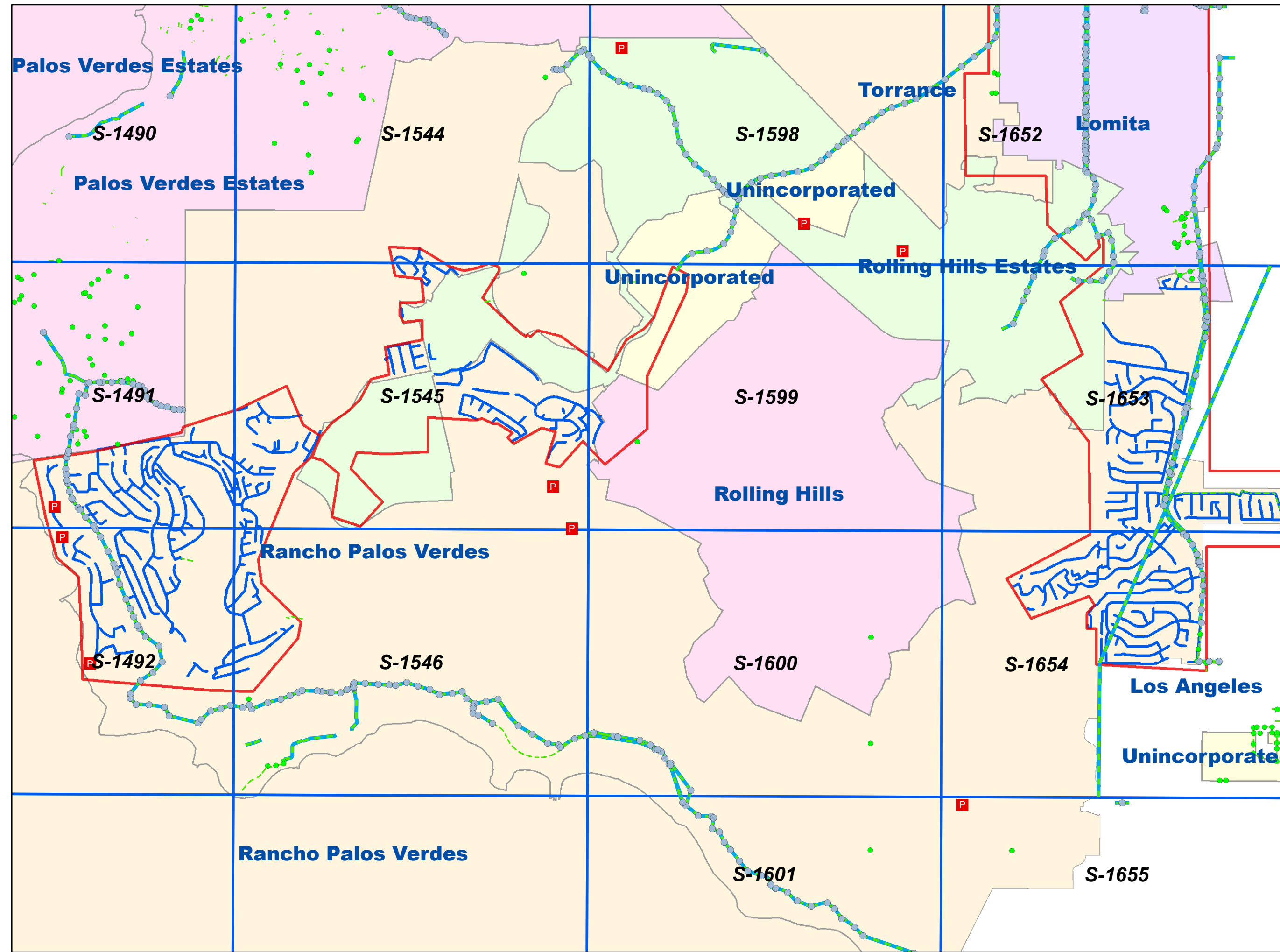


Legend

- SMD Sewers
- SMD Manholes
- Manhole Type
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- SMD Pump Stations
- WTP SMD Treatment Plants
- Trunk Sewerlines
- Trunk MH
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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September 2016



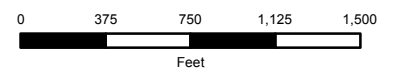
ENCLOSURE 2:

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

ENCLOSURE 2
CCTV PROJECT
Y0TV112C

CITY OF RANCHO
PALOS VERDES

Quick
Maintenance
Rating
(QMR)

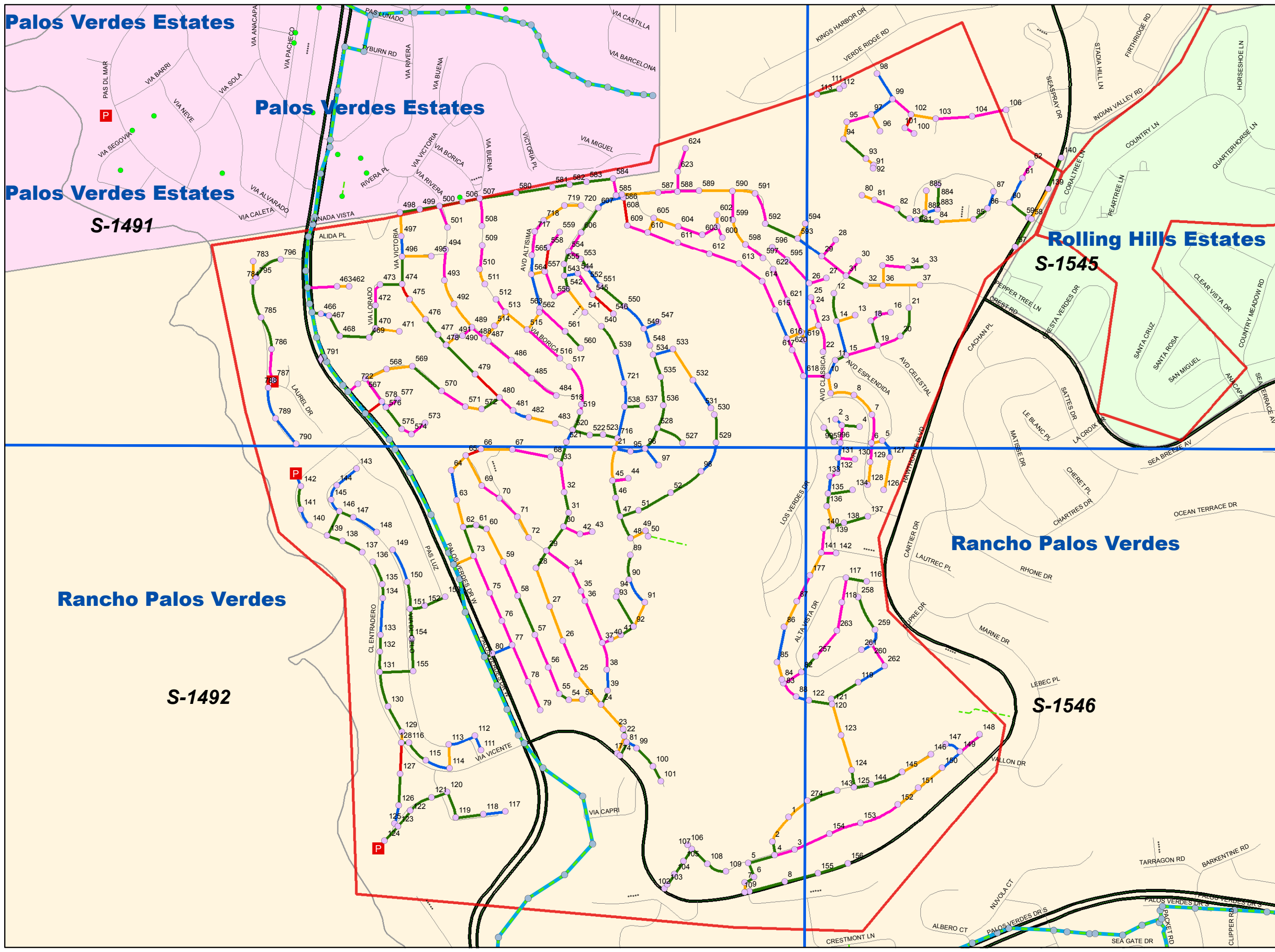


Legend

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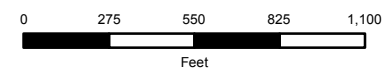
September 2016



ENCLOSURE 2
CCTV PROJECT
Y0TV112C

CITY OF RANCHO PALOS VERDES

Quick Maintenance Rating (QMR)

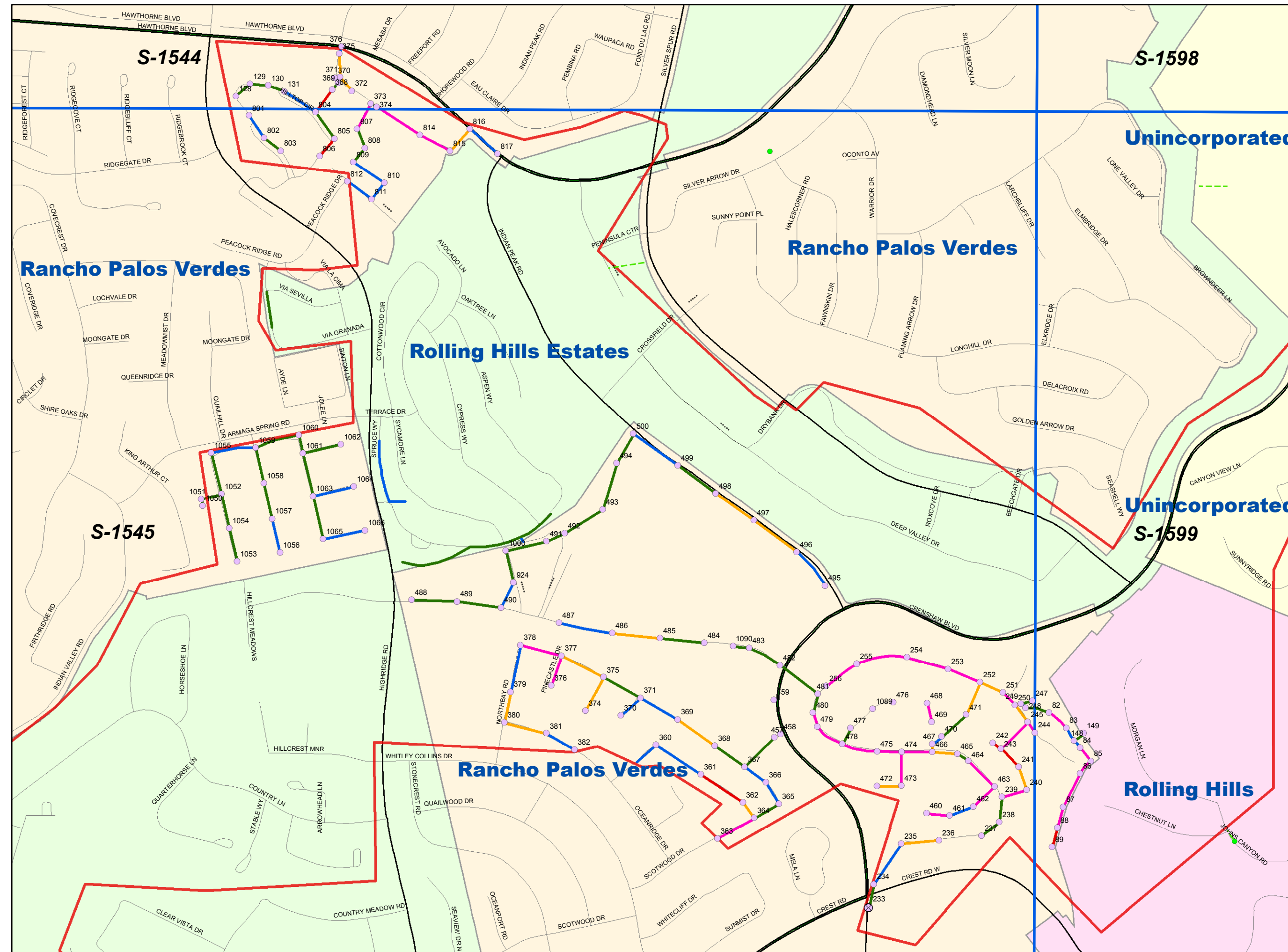


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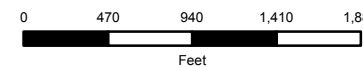
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ENCLOSURE 2
CCTV PROJECT
Y0TV112C

CITY OF RANCHO
PALOS VERDES

Quick
Maintenance
Rating
(QMR)

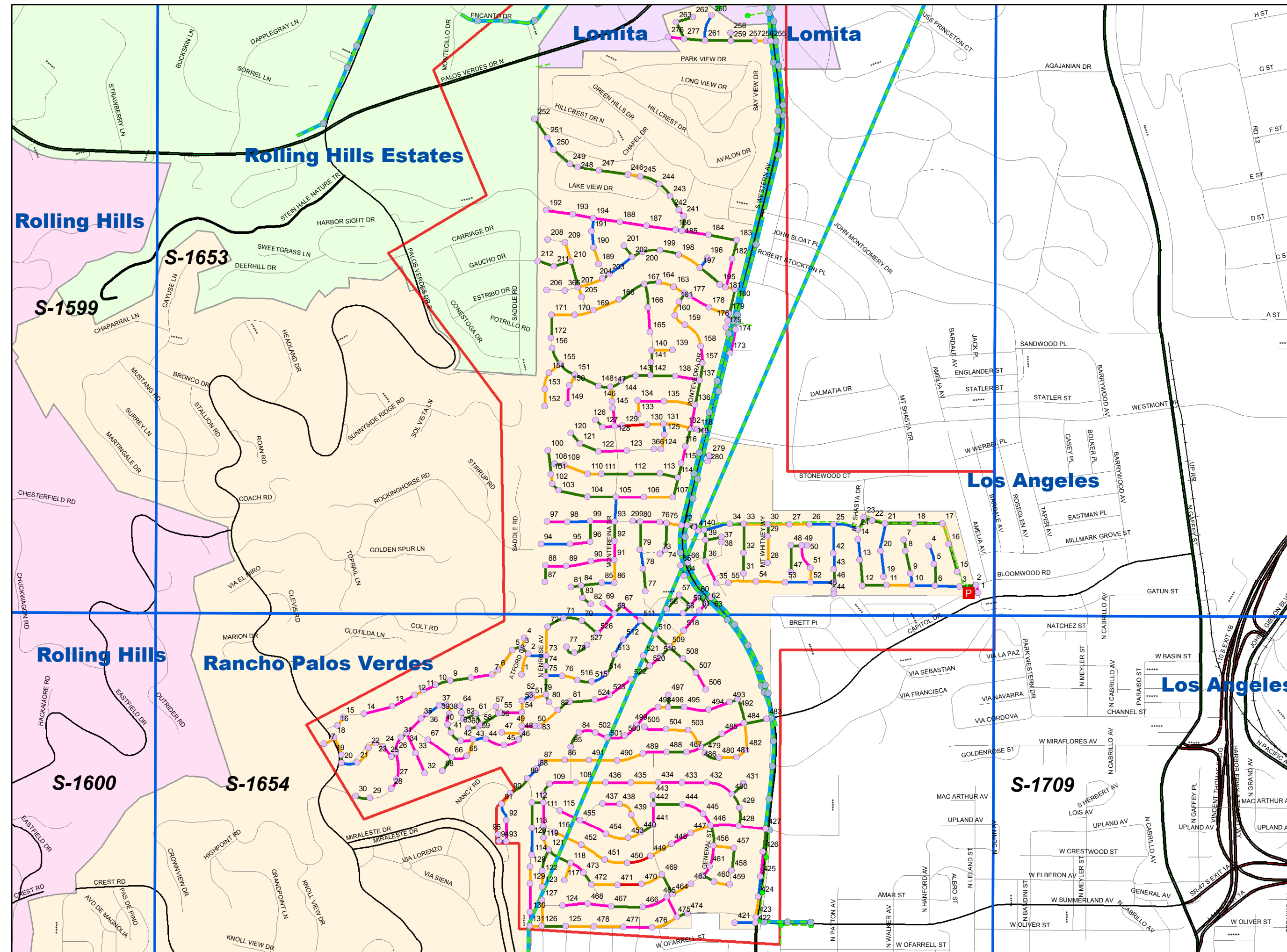


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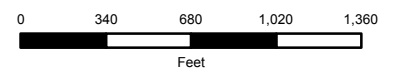
**ENCLOSURE 2
HIGH WATER LEVELS
CITY OF RANCHO PALOS VERDES (Y0TV1112C)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	4400	1654-0049	1654-0050	EASEMENT	Sag; camera underwater: 50' - 88'		Hydrojet (08/31/15)
2	4211	1654-0032	1654-0033	EL TESORO PL	Water mark (50%)	X	No maintenance action needed.
3	4131	1545-0378	1545-0377	MISTRIDGE DR	Camera underwater: 0'- 22'		Hydrojet (07/17/15)
4	4131	1545-0022	1545-0023	EASEMENT	Water mark (50%)	X	No maintenance action needed.
5	4131	1545-0244	1545-0245	MIDDLECREST RD	Water mark (50%)	X	No maintenance action needed.
6	4100	1653-0256	1653-0255	PENINSULA VERDE DR	Water mark (50%)	X	No maintenance action needed.
7	3114	1545-0465	1545-0466	CRESTRIDGE RD	Sag: 68' - 85'		Hydrojet (07/17/15)

ENCLOSURE 2
CCTV PROJECT
Y0TV112C

CITY OF RANCHO PALOS VERDES

High Water Level

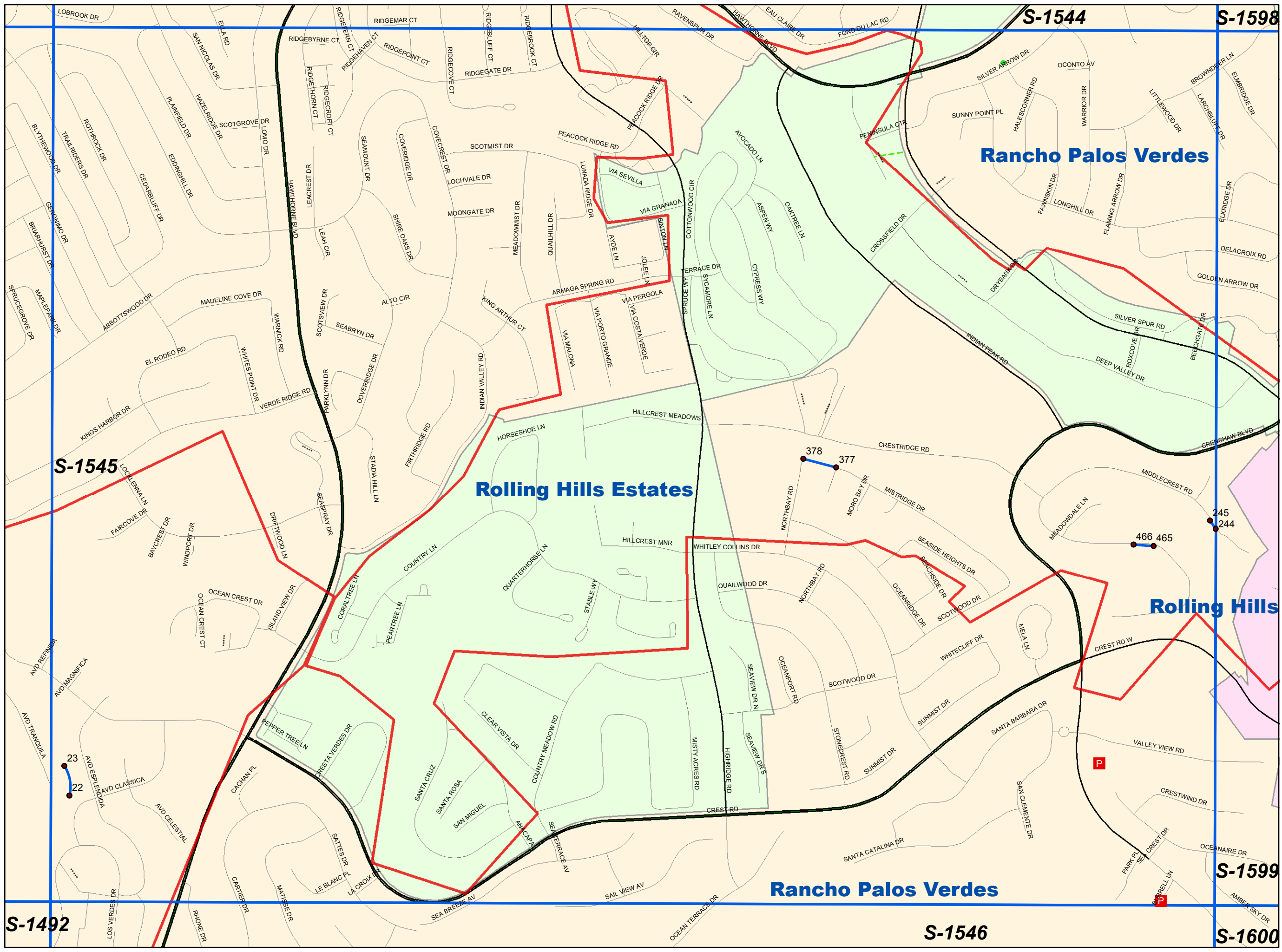


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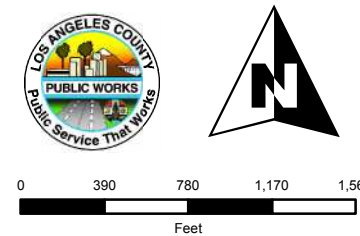
September 2016



ENCLOSURE 2 CCTV PROJECT Y0TV112C

CITY OF RANCHO PALOS VERDES

High Water Level

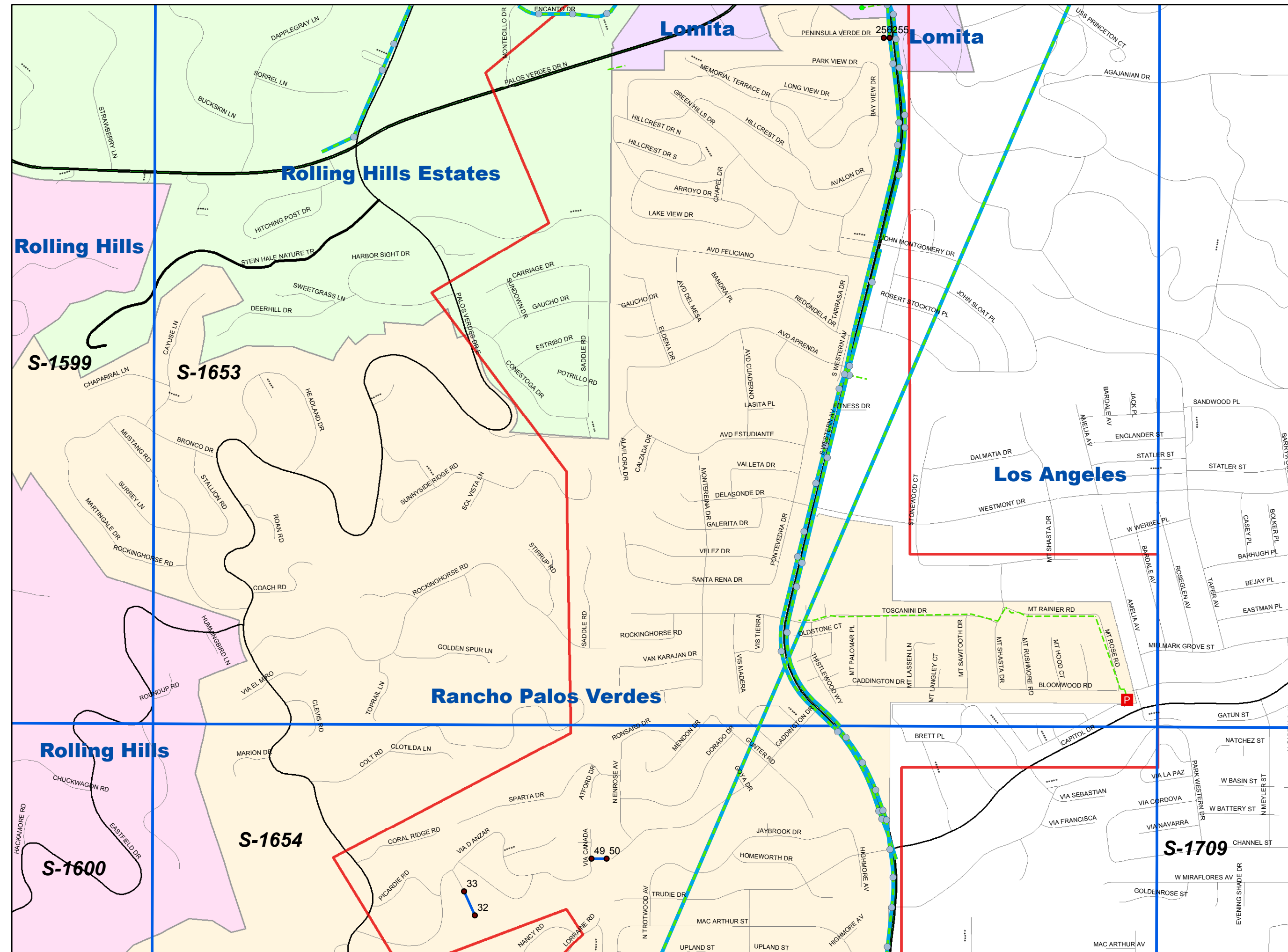


Legend

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MARK PRESTRELLA, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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

{Date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Mr./Ms. {Name}

Dear Mr./Ms. {Name}:

SEWER LATERAL ROOT INTRUSION

{Address},

{Address}

The County of Los Angeles Consolidated Sewer Maintenance District (District) is responsible for the maintenance of the sanitary sewer system in your area. We recently televised the sewer mainline and discovered roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing an overflow to your property and/or those immediately upstream of your property. You are hereby requested to perform maintenance on the private sewer lateral serving the property located at {Address}.

In accordance with **County Code 20.24.080 Maintenance of Sewer Laterals**, ***"All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order."***

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

Mr./Ms. {Name}
{Date}
Page 2

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

We have enclosed photos of your lateral connection showing the root blockage. In addition, we have included literature on ways to minimize sewer overflows and damage to your home. Please consider establishing a routine cleaning schedule for your sewer lateral to minimize potential plumbing problems caused by root intrusion that are likely to reoccur.

If your sewer lateral has been cleaned after the date on the enclosed photos, no further action is necessary. After your lateral has been serviced, please notify Ms. Kari Eskridge, Sewer Maintenance Division, at (626) 300-3390 or keskridge@dpw.lacounty.gov.

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

Very truly yours,

MARK PRESTRELLA
Director of Public Works

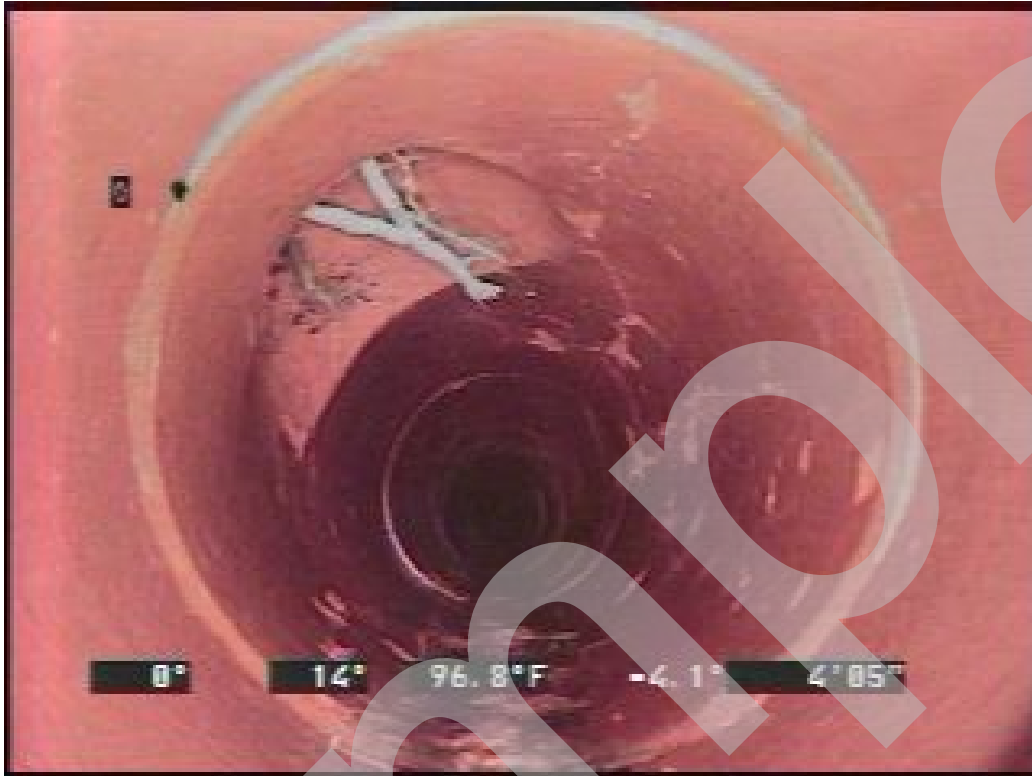
WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

XXXX

Enc.

{Address}
{Address}

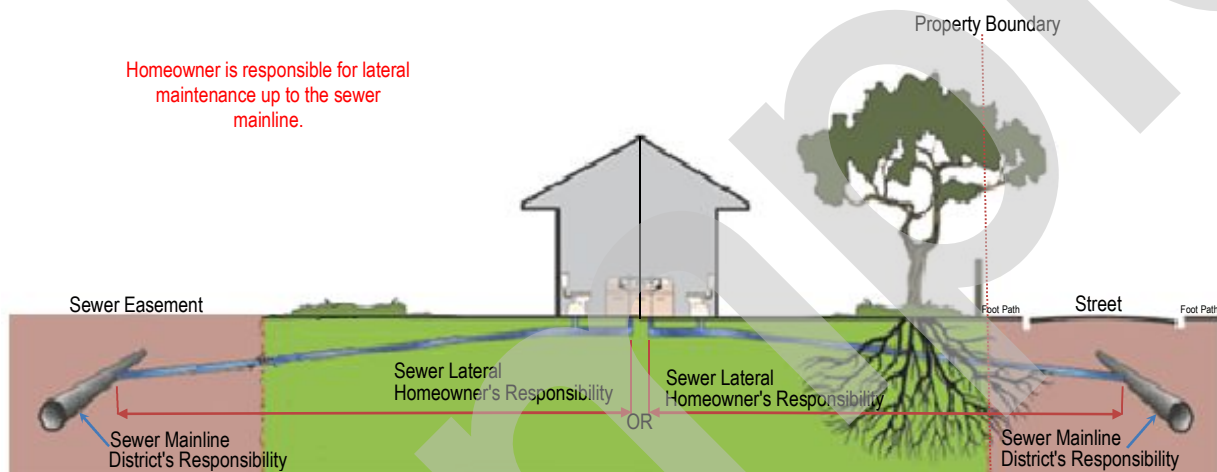
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes the portion that may be located within the public right of way (under the asphalt and street landscaping).

SEWER LATERALS – AREAS OF RESPONSIBILITY



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. "Out of sight, out of mind" is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus, minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement.
2. Do not place improper items into the sewer or make improper connections to the sewer.
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 3:

- Quick Structural Rating Report Priority List
- Quick Structural Rating Map
- Lining and Point Repair Project Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF RANCHO PALOS VERDES (Y0TV1112C)

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
1	5741	1545-0467	1545-0470	EASEMENT	MH 467 base; fracture multiple: 2'-10', 13'-21', 41'-46'; fracture: 56', 67'	Point Repair: 19', 42'; Lining: MH to MH	74
2	544B	1654-0446	1654-0428	CRESTWOOD ST	Fracture: 2', 27', 51', 64', 150', 195'; fracture multiple: 36', 67', 104'-107', 141'-145', 209'; broken with fracture: 75'	Point Repair: 75', 104' - 107'; Lining: MH to MH	335
3	544A	1545-0243	1545-0245	EASEMENT	Fracture: 20', 82', 112', 212'; fracture multiple: 85' - 95', 116'-123'; broken: 126'-133'	Point Repair: 126'; Lining: MH to MH	260
4	5445	1654-0127	1654-0126	ENROSE AV	Fracture multiple: 150'-160', 208'-222'	Lining: MH to MH	299
5	5443	1654-0124	1654-0468	GENERAL ST	Fracture: 16', 98', 128', 159', 177'; fracture multiple: 161'-164', 180'-183'; broken with fracture: 229', 314'	Point Repair: 161' - 164', 180' - 183', 229'	340
6	534N	1654-0434	1654-0433	MACARTHUR ST	MH 434 base; fracture: 3', 21', 27', 58', 151', 237'; fracture multiple: 305'-308'; broken with fracture: 77'-82'	Point Repair: 77' - 82'; Lining: MH to MH	348
7	534I	1654-0108	1654-0436	MACARTHUR ST	Fracture multiple: 63', 232', 237'; broken with fracture: 124'-131', 170'-181', 287'; MH 436 base	Lining: MH to MH	348
8	524L	1654-0436	1654-0435	MACARTHUR ST	Fracture multiple: 4', 48'-53', 91', 136', 169', 225'-233', 244', 248', 251', 263', 269', 303'. 322'-328'	Lining: MH to MH	347
9	5344	1545-0473	1545-0474	EASEMENT	Fracture multiple: 8', 31'-35', 81', 160', 170'-MSA; 70' (Reverse)	Point Repair: 170'; Lining: MH to MH	260
10	5344	1599-0086	1599-0085	EASEMENT	Fracture multiple: 37'-44', 48', 98', 102'	Lining: MH to MH	
11	5342	1654-0505	1654-0504	HOMEWORTH DR	Fracture: 77', 197', 289'; Hole: 325'	Structural integrity intact. No action needed.	
12	524G	1654-0433	1654-0432	MACARTHUR ST	Fracture multiple: 25' - 30', 72' - 76', 54' - 58'	Point Repair: 25' - 30'; Lining: MH to MH	295
13	5243	1654-0445	1654-0446	UPLAND ST	Fracture: 4', 134'; fracture multiple: 39' - 49', 73', 81', 93', 99', 138' - 142'	Part of SMDAC00140: Sewer Rehab Project No. 11	
14	5242	1653-0142	1653-0138	AVENIDA ESTUDIANTE	Fracture multiple: 4' - 17', 23' - 38'	Lining: MH to MH	20
15	5242	1599-0085	1599-0084	EASEMENT	Fracture: 13'; broken and collapsed: 69'	Point Repair: 69'	
16	5241	1654-0480	1654-0481	EASEMENT	Fracture: 7', 167', 185', 206'; Fracture multiple: 169', 175', 188'	Lining: MH to MH	210
17	5233	1654-0013	1654-0012	EASEMENT	Fracture: 243', 278'; Fracture multiple: 263' - 273'	Lining: MH to MH	295
18	5232	1653-0123	1653-0366	GALERITA DR	Fracture: 138', 197'; Broken with fracture multiple: 270' - 273'; Broken: 313'	Point Repair: 270' - 273'	
19	5223	1545-0367	1545-0457	EASEMENT	Fracture multiple: 120', 335'	Lining: MH to MH	341
20	514D	1654-0431	1654-0430	HIGHMORE AV.	Fracture multiple: 23', 41' - 50', 73', 76', 85' - 88', 107', 167', 174', 186', 189', 192'; Fracture: 158'	Lining: MH to MH	196
21	5149	1654-0119	1654-0111	ENROSE AV	Fracture multiple: 3', 58', 76', 100', 122', 125', 128', 131', 134', 137', 140', 143', 148', 151', 154', 157' - 163', 166', 169', 172', 179', 182', 188', 191', 194', 197', 200', 203', 209'; Fracture: 53', 65', 85', 88', 94', 110', 119'	Lining: MH to MH	231
22	5149	1654-0125	1654-0478	SUMMERLAND ST	Fracture multiple: 39' - 41', 83' - 95', 118' - 120', 238' - 240', 271'; fracture: 125', 198', 210', 306'	Lining: MH to MH	348
23	5146	1545-0250	1545-0249	EASEMENT	Fracture multiple: 3' - 9', 14'; Fracture: 12', 19', 22', 32', 35'	Lining: MH to MH	43
24	5145	1654-0475	1654-0465	EASEMENT	Fracture: 24', 57', 60', 72', 180', 183', 268', 270'	Lining: MH to MH	281
25	5144	1654-0467	1654-0466	GENERAL ST	Fracture multiple: 2', 215' - 218', 336'	Swartz Sleeve: 336'	
26	5143	1653-0124	1653-0125	GALERITA DR	Fracture: 5', 40', 80', 126'	Structural integrity intact. No action needed.	
27	5143	1654-0478	1654-0477	SUMMERLAND ST	Fracture multiple: 1' - 3', 46', 111', 183', 240', 279', 346'; Fracture: 234', 330'	Lining: MH to MH	350
28	5142	1492-0063	1492-0062	RUE LANGLOIS	Hole at base of MH: 1492-0063, 1492-0062; Fracture multiple: 3', 242'	CSMD will repair MH base.	
29	5142	1654-0465	1654-0464	GENERAL ST	Fracture multiple: 2', 13', 19', 29', 44', 50', 68'	Lining: MH to MH	72
30	5142	1599-0087	1599-0086	EASEMENT	Fracture: 143', 146', 160', 187', 194', 204', 251', 254'	Structural integrity intact. No action needed.	
31	5141	1546-0150	1546-0151	VIA LA CRESTA	Broken with void: 124'	Swartz Sleeve: 124'	
32	5141	1545-0485	1545-0484	CRESTRIDGE RD	Fracture: 93'; Broken with void: 148'; Hole at base of MH: 1545-0484	CSMD will repair MH base.	
33	5141	1491-0556	1491-0557	EASEMENT	Fracture multiple: 73'; Fracture: 169'	Structural integrity intact. No action needed.	
34	5141	1545-0466	1545-0467	EASEMENT	Broken with fracture multiple: 36'; Fracture: 42' - 45'; Hole at base of MH: 1545-0467	CSMD will repair MH base. Lining: MH to MH	50
35	5141	1654-0120	1654-0121	ENROSE AV	Fracture multiple: 2'; Fracture: 54'	Lining: MH to MH	167
36	5141	1654-0468	1654-0467	GENERAL ST	Broken: 1', 249'; Fracture: 76', 106', 280'; Fracture multiple: 338'	Lining: MH to MH	342'
37	5141	1492-0086	1492-0085	EASEMENT	Fracture: 88'; Broken with fracture multiple: 206'	Structural integrity intact. No action needed.	

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF RANCHO PALOS VERDES (Y0TV1112C)

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
38	5141	1545-0378	1545-0377	MISTRIDGE DR	Large offset with broken due to Storm Drain: 22' (Storm Drain PD486 Line B)	No action needed.	
39	5141	1492-0088	1546-0122	EASEMENT	Fracture: 94'; Fracture multiple: 131'	Structural integrity intact. No action needed.	
40	5141	1599-0088	1599-0087	EASEMENT	Fracture: 5'; Broken with fracture: 146'	Structural integrity intact. No action needed.	
41	5141	1653-0174	1653-0175	WESTERN AV	Fracture multiple: 54' - 56'	Structural integrity intact. No action needed.	
42	5132	1653-0252	1653-0251	EASEMENT	Fracture multiple: 214', 263'; Fracture: 220'	Swartz Sleeve: 214'	
43	5132	1653-0102	1653-0103	SANTA RENA DR	Fracture: 15', 24'	No action needed.	
44	5131	1491-0482	1491-0481	VIA VICTORIA	Fracture: 153'; Fracture multiple: 218'	Structural integrity intact. No action needed.	
45	5131	1654-0074	1654-0073	ENROSE AV	Fracture: 30'; Fracture multiple: 119'	Structural integrity intact. No action needed.	
46	5131	1654-0059	1654-0058	EASEMENT	Large offset with void visible: 2'; Fracture multiple: 3' (Reverse)	Point Repair: 2'	
47	5127	1492-0142	1492-PUMP	EASEMENT	Hole with fracture multiple: 22' - 24'	Structural integrity intact. No action needed.	
48	5122	1491-0531	1491-0532	CAMINO PORVENIR	Hole with void visible and fracture: 23'	Structural integrity intact. No action needed.	
49	5121	1599-0089	1599-0088	EASEMENT	Broken: 2'	Structural integrity intact. No action needed.	
50	5100	1545-0011	1545-0010	AVENIDA CLASSICA	Fracture multiple: 104'	Structural integrity intact. No action needed.	
51	5100	1545-0037	1545-0036	CREST ROAD	Fracture multiple: 316'	Structural integrity intact. No action needed.	
52	5100	1492-0104	1492-0103	EASEMENT	Hole with void visible and fracture: 138'	Point Repair: 138'	
53	5100	1545-0806	1545-0805	HILLTOP CIR	Hole: 29'	Point Repair	
54	5100	1491-0546	1491-0545	EASEMENT	Fracture from tap break-in: 87'	Point Repair	
55	5100	1653-0067	1654-0511	GUNTER RD	Fracture: 55', 123'; Hole: 19' (Reverse)	Structural integrity intact. No action needed.	
56	5100	1653-0094	1653-0095	ROCKINGHORSE RD	Fracture: 300'	Structural integrity intact. No action needed.	
57	5100	1491-0611	1491-0610	EASEMENT	Fracture: 299'	Structural integrity intact. No action needed.	
58	5100	1491-0605	1491-0610	EASEMENT	Hole from grounded rod: 52'	CSMD will remove grounded rod.	
59	4L11	1654-0435	1654-0434	MACARTHUR ST	Fracture multiple: 25', 64', 91', 104', 240', 332'; Hole at base of MH: 1654-0434	CSMD will repair MH base.	
60	4C3A	1654-0462	1654-0461	GENERAL ST	Fracture multiple: 4'; Fracture: 11', 23', 42', 57', 69', 73', 81', 161', 163'	Structural integrity intact. No action needed.	
61	4C33	1545-0471	1545-0252	MIDDLECREST RD	Fracture: 56', 87', 110', 187', 197', 214'	Structural integrity intact. No action needed.	
62	4A33	1654-0432	1654-0430	MACARTHUR ST	Fracture multiple: 18', 51'; Fracture: 29', 64', 104'	Lining: MH to MH	204
63	4A32	1654-0430	1654-0429	MACARTHUR ST	Fracture: 40', 86', 92', 116', 119', 122', 134', 140', 149'; Fracture multiple: 83'	Lining: MH to MH	186
64	4734	1653-0168	1653-0167	AVENIDA APRENDA	Fracture: 149', 226', 230', 296', 341'; Fracture multiple: 179' - 182', 206' - 209'	Lining: MH to MH	350
65	4733	1653-0205	1653-0207	ELDENA DR	Fracture: 33', 86', 105'; Fracture multiple: 49' - 52', 59' - 65', 91' - 98'	Lining: MH to MH	126
66	4731	1653-0107	1653-0114	PONTEVEDRA DR	Fracture: 138', 146', 162', 204', 224'; Fracture multiple: 149' - 158', 183' - 194'	Lining: MH to MH	233
67	4638	1654-0447	1654-0446	CRESTWOOD ST	Fracture: 87', 108', 146', 183', 195', 207'; Fracture multiple: 143', 153', 159'	Lining: MH to MH	214
68	453G	1654-0466	1654-0465	GENERAL ST	Fracture multiple: 15'-17', 45', 66', 97', 100', 115', 121', 143', 148', 179'-183', 201', 210', 215'-220', 224', 280'-285', 294'	Part of SMDACO0140: Sewer Rehab Project No. 11	
69	453A	1654-0126	1654-0125	SUMMERLAND ST	Fracture multiple: 7', 116', 128', 161', 185', 237', 255', 279', 283', 336'; Fracture: 13', 28', 55', 71', 74', 83', 149', 196'	Lining: MH to MH	340
70	4531	1545-0492	1545-0493	EASEMENT	Fracture multiple: 51' - 60', 95' - 105'; Fracture: 75', 126'	Lining: MH to MH	310
71	443C	1545-0235	1545-0236	CRESTRIDGE RD	Fracture: 20', 47'	Structural integrity intact. No action needed.	
72	443A	1492-0022	1492-0017	VIA RIVERA	Fracture: 47', 148'; Fracture multiple: 55', 63', 67', 103', 114' - 115'	Lining: MH to MH	159
73	442A	1545-0491	1545-0492	EASEMENT	Fracture multiple: 98' - 107', 123' - 133'	Lining: MH to MH	136
74	4439	1545-0241	1545-0243	EASEMENT	Fracture: 2', 26', 29', 79', 83', 100', 107', 121', 128', 131', 138', 151', 155', 172', 4' (Reverse)	Structural integrity intact. No action needed.	
75	4435	1654-0456	1654-0446	GENERAL ST	Fracture: 2', 16', 19', 24', 65' - 69', 148', 241'; Fracture multiple: 145', 175'	Lining: MH to MH	244

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
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No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
76	4434	1653-0111	1653-0112	VELEZ DR	Fracture: 6', 58', 72', 128', 214', 238', 323'	Structural integrity intact. No action needed.	
77	4431	1654-0499	1654-0498	JAYBROOK DR	Fracture multiple: 39'; Fracture: 68', 182', 221', 336'	Structural integrity intact. No action needed.	
78	433D	1492-0058	1492-0059	RUE VALOIS	Fracture: 76', 120', 147', 197', 227', 247', 251'; Hole at base MH: 1492-0059	CSMD will repair MH base.	
79	433B	1545-0240	1545-0241	EASEMENT	Fracture: 4', 11', 79', 109', 116', 157', 166'	Structural integrity intact. No action needed.	
80	433B	1654-0477	1654-0476	SUMMERLAND ST	Fracture: 8', 140', 165', 253', 275'; Fracture multiple: 257', 278' - 283', 287' - 293'	Lining: MH to MH	352
81	433A	1545-0470	1545-0471	EASEMENT	Fracture: 4', 58', 64', 74', 88', 95', 216'; Fracture multiple: 225'	Structural integrity intact. No action needed.	
82	433A	1654-0490	1654-0489	TRUDIE DR	Fracture: 132', 160', 178', 214', 265'	Structural integrity intact. No action needed.	
83	4338	1654-0494	1654-0493	JAYBROOK DR	Fracture: 121', 160', 193', 252', 285'	Structural integrity intact. No action needed.	
84	4338	1654-0439	1654-0440	UPLAND ST	Fracture: 21', 154', 170', 250', 336'; Fracture multiple: 161'	Structural integrity intact. No action needed.	
85	4336	1492-0079	1492-0078	RUE LANGLOIS	Fracture: 4', 9', 147', 156', 159', 186', 210'	Structural integrity intact. No action needed.	
86	4335	1545-0248	1545-0249	EASEMENT	Fracture multiple: 4' - 10'; Fracture: 14', 17'	Structural integrity intact. No action needed.	
87	4334	1545-0478	1545-0475	CRESTRIDGE RD	Fracture: 4', 21', 25', 120'	Structural integrity intact. No action needed.	
88	4334	1654-0450	1654-0449	CRESTWOOD ST	Fracture: 117', 131', 207', 215', 258'; Fracture multiple: 189' - 199', 243'	Lining: MH to MH	264
89	4333	1653-0122	1653-0123	GALERITA DR	Fracture: 60'; Broken with fracture: 252'; Fracture at wye: 284'	Structural integrity intact. No action needed.	
90	4332	1545-0462	1545-0463	EASEMENT	Fracture: 37', 159', 162', 192'	Structural integrity intact. No action needed.	
91	4332	1599-0084	1599-0148	EASEMENT	Fracture multiple: 6', 31' - 38'; Broken at wye: 50'; Fracture: 59'	Lining: MH to MH	61
92	4331	1545-0463	1545-0464	CRESTRIDGE RD	Fracture: 12', 15', 129'; Fracture multiple: 103', 67' (Reverse)	Structural integrity intact. No action needed.	
93	4331	1654-0121	1654-0118	FAIRHILL DR	Broken with multiple fractures: 3'; Fracture: 59', 71', 159'; Fracture multiple: 125', 140'	Structural integrity intact. No action needed.	
94	4321	1653-0195	1653-0181	REDONDELA DR	Fracture: 54', 77', 82'; Fracture multiple: 59', 64'	Structural integrity intact. No action needed.	
95	423D	1654-0449	1654-0448	CRESTWOOD ST	Fracture multiple: 7', 13' - 18', 34', 43', 53', 56', 143', 198', 259'; Fracture: 58', 89', 121', 235', 253', 268', 283', 293', 318', 320', 327', 332', 340', 345'	Lining: MH to MH	352
96	423B	1653-0137	1653-0136	PONTEVEDRA DR	Fracture: 76', 84', 102'; Fracture at wye: 83'	Structural integrity intact. No action needed.	
97	423A	1653-0103	1653-0104	SANTA RENA DR	Fracture: 8', 18', 92', 95', 101', 148', 185'	Structural integrity intact. No action needed.	
98	423A	1654-0492	1654-0484	HIGHMORE AV	Fracture: 69', 123', 126', 147', 237'	Structural integrity intact. No action needed.	
99	4238	1653-0104	1653-0105	SANTA RENA DR	Fracture multiple: 5'; Fracture: 38', 81', 88', 98', 136', 196'	Structural integrity intact. No action needed.	
100	4236	1545-0465	1545-0466	CRESTRIDGE RD	Fracture multiple: 50'; Fracture: 143', 149'	Structural integrity intact. No action needed.	
101	4235	1653-0182	1653-0181	TARRASA DR	Fracture: 80', 285', 289', 292', 296'	Structural integrity intact. No action needed.	
102	4234	1653-0199	1653-0198	REDONDELA DR	Fracture: 14', 96', 121', 237'	Structural integrity intact. No action needed.	
103	4234	1545-0058	1545-0057	HAWTHORNE BV	Fracture: 249', 259', 264'; Fracture multiple: 254'	Structural integrity intact. No action needed.	
104	4233	1654-0495	1654-0494	JAYBROOK DR	Fracture: 114', 140', 203'	Structural integrity intact. No action needed.	
105	4233	1545-0472	1545-0473	EASEMENT	Fracture multiple: 26', 161'; Fracture: 84', 165'	Structural integrity intact. No action needed.	
106	4232	1654-0451	1654-0450	CRESTWOOD ST	Fracture multiple: 4', 59'; Broken at wye: 60'; Fracture: 80', 107'	Structural integrity intact. No action needed.	
107	4232	1654-0464	1654-0463	GENERAL ST	Fracture multiple: 4', 142', 153', 200', 206' - 209'; Fracture: 19', 58', 95', 100', 121', 124', 127', 136', 149', 167', 190'	Lining: MH to MH	212
108	4231	1545-0480	1545-0479	CRESTRIDGE RD	Fracture: 67', 111', 152', 156'	Structural integrity intact. No action needed.	
109	4231	1545-0476A	1545-0477	MEADOWDALE LN	Fracture: 46', 121', 125', 145'	Structural integrity intact. No action needed.	
110	4231	1654-0437	1654-0438	UPLAND ST	Fracture: 142', 211'; Fracture multiple: 232'	Structural integrity intact. No action needed.	
111	4231	1654-0116	1654-0452	CRESTWOOD ST	Fracture: 8'; Fracture multiple: 321'	Structural integrity intact. No action needed.	
112	4231	1599-0082	1545-0248	EASEMENT	Fracture multiple: 3'; Fracture: 16', 37'	Structural integrity intact. No action needed.	

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF RANCHO PALOS VERDES (Y0TV1112C)

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
113	4231	1599-0148	1599-0083	EASEMENT	Fracture: 3'; Fracture multiple: 88' - 93'	Lining: MH to MH	
114	4226	1654-0049	1654-0050	EASEMENT	There is nothing wrong.	Structural integrity intact. No action needed.	
115	4200	1545-0013	1545-0014	EASEMENT	Fracture multiple: 2', 186'	Structural integrity intact. No action needed.	
116	4200	1653-0146	1653-0147	MONTEREINA DR	Fracture multiple: 146', 150'	Lining: MH to MH	161
117	4200	1654-0109	1654-0108	MACARTHUR ST	Fracture: 2', 86'	Structural integrity intact. No action needed.	
118	4200	1654-0473	1654-0472	FAIRHILL DR	Fracture: 77', 113'	Structural integrity intact. No action needed.	
119	4200	1545-0378	1545-0377	MISTRIDGE DR	Broken with large offset: 23'	Structural integrity intact. No action needed.	
120	413J	1491-0568	1491-0567	BERRY HILL DR	Fracture: 40', 122', 140'; Fracture multiple: 209'	Structural integrity intact. No action needed.	
121	413G	1545-0237	1545-0238	CRESTRIDGE RD	Fracture multiple: 3', 157'; Fracture: 6', 9', 160', 188'	Structural integrity intact. No action needed.	
122	413D	1491-0571	1491-0570	BERRY HILL DR	Broken: 58'; Fracture: 133'	Structural integrity intact. No action needed.	
123	413B	1653-0177	1653-0178	AVENIDA APRENDA	Fracture: 86', 106', 137', 213', 255', 331'	Structural integrity intact. No action needed.	
124	413A	1492-0024	1492-0023	VIA RIVERA	Fracture: 76'; Hole at MH 1492-0023 base	CSMD will repair MH base.	
125	413A	1492-0057	1492-0058	RUE VALOIS	Fracture: 159', 200', 287'	Structural integrity intact. No action needed.	
126	413A	1545-0475	1545-0474	CRESTRIDGE RD	Fracture: 14', 82', 93', 137', 154', 178', 195', 205'	Structural integrity intact. No action needed.	
127	413A	1654-0474	1654-0475	SUMMERLAND ST	Fracture multiple: 23', 26' 40' - 45', 92'; Fracture: 36', 38', 59', 63'	Part of SMDACO0140: Sewer Rehab Project No. 11	
128	4138	1653-0162	1653-0161	PONTEVEDRA DR	Fracture: 129', 158', 168', 214', 221'	Structural integrity intact. No action needed.	
129	4138	1654-0459	1654-0460	BERNICE DR	Fracture: 17'; Fracture multiple: 186'	Structural integrity intact. No action needed.	
130	4138	1654-0496	1654-0495	JAYBROOK DR	Fracture: 96', 103', 140', 151', 191'	Structural integrity intact. No action needed.	
131	4136	1654-0083	1654-0082	CADDINGTON DR	Fracture: 205', 251', 295'; Hole at MH 1654-0082 base	CSMD will repair MH base.	
132	4136	1492-0069	1492-0065	RUE DE LA PIERRE	Fracture: 147', 153', 286'	Structural integrity intact. No action needed.	
133	4135	1653-0211	1653-0210	GAUCHO DR	Fracture: 8', 15', 52', 68', 139', 142'	Structural integrity intact. No action needed.	
134	4135	1654-0081	1654-0524	CADDINGTON DR	Fracture: 248', 288'; Hole at MH 1654-0524 base	CSMD will repair MH base.	
135	4135	1545-0249	1545-0247	EASEMENT	Fracture: 31', 80', 100'	Structural integrity intact. No action needed.	
136	4134	1491-0572	1491-0571	BERRY HILL DR	Fracture multiple: 65'; Fracture: 166', 169'	Structural integrity intact. No action needed.	
137	4134	1546-0123	1546-0124	EASEMENT	Fracture: 251', 271', 282', 324', 338'	Structural integrity intact. No action needed.	
138	4134	1653-0109	1653-0110	VELEZ DR	Fracture: 0', 6', 26', 69', 89'	Structural integrity intact. No action needed.	
139	4134	1654-0448	1654-0447	CRESTWOOD ST	Fracture: 2', 101', 226'; Fracture multiple: 108'	Structural integrity intact. No action needed.	
140	4133	1492-0026	1492-0025	VIA RIVERA	Fracture: 48', 212', 218'	Structural integrity intact. No action needed.	
141	4133	1491-0472	1491-0470	VIA LORADO	Fracture: 97', 145'	Structural integrity intact. No action needed.	
142	4133	1491-0469	1491-0468	VIA LORADO	Fracture: 95'	Structural integrity intact. No action needed.	
143	4133	1491-0523	1491-0522	EASEMENT	Fracture multiple: 44', 80', 98', 106', 113'; Fracture: 51', 94', 111'	Lining: MH to MH	118
144	4133	1653-0169	1653-0168	AVENIDA APRENDA	Fracture: 4', 7', 242', 305'	Structural integrity intact. No action needed.	
145	4133	1653-0184	1653-0183	AVENIDA FELICIANO	Fracture multiple: 10' -13'; 315'	Lining: MH to MH	345
146	4133	1654-0502	1654-0501	JAYBROOK DR	Fracture: 5', 47', 71'	Structural integrity intact. No action needed.	
147	4133	1654-0457	1654-0456	BERNICE DR.	Fracture: 21', 77', 86'; Fracture multiple: 57', 230', 252'	Lining: MH to MH	255
148	4133	1654-0522	1654-0520	CADDINGTON DR	Fracture multiple: 41'; Fracture: 150'	Structural integrity intact. No action needed.	
149	4132	1492-0064	1492-0063	RUE LANGLOIS	Fracture: 203'; Hole at MH 1492-0063 base	CSMD will repair MH base.	
150	4132	1545-0476	1545-0476A	MEADOWDALE LN	Fracture: 102'	Structural integrity intact. No action needed.	

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF RANCHO PALOS VERDES (Y0TV1112C)

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
151	4132	1545-0253	1545-0252	MIDDLECREST RD	Fracture: 231', 277'	Structural integrity intact. No action needed.	
152	4132	1545-0811	1545-0810	EASEMENT	Fracture: 3', 12', 129'	Structural integrity intact. No action needed.	
153	4132	1653-0209	1653-0210	ELDENA DR	Fracture: 35', 70', 151'	Structural integrity intact. No action needed.	
154	4132	1653-0204	1653-0203	REDONDELA DR	Fracture: 49', 66'	Structural integrity intact. No action needed.	
155	4132	1653-0200	1653-0199	REDONDELA DR	Fracture: 34', 145'	Structural integrity intact. No action needed.	
156	4132	1653-0170	1653-0169	AVENIDA APRENDA	Fracture: 43'	Structural integrity intact. No action needed.	
157	4132	1653-0153	1653-0154	ALAFLOA DR	Fracture: 85', 96', 221'	Structural integrity intact. No action needed.	
158	4132	1654-0110	1654-0109	ENROSE DR	Fracture: 1', 3'; Fracture multiple: 84'	Lining: MH to MH	151
159	4132	1654-0440	1654-0441	NOBLE VIEW PL	Fracture: 61', 94', 110', 119'; Hole at MH 1654-0441 base	CSMD will repair MH base.	
160	4132	1654-0486	1654-0485	TRUDIE DR	Fracture: 37', 196', 308', 314'	Structural integrity intact. No action needed.	
161	4132	1654-0493	1654-0492	JAYBROOK DR	Fracture: 5', 32'	Structural integrity intact. No action needed.	
162	4132	1654-0507	1654-0508	GUNTER RD	Fracture multiple: 116' - 122', 149'	Lining: MH to MH	231
163	4132	1654-0476	1654-0475	SUMMERLAND ST	Fracture: 2', 233'; Fracture multiple: 127', 218'	Lining: MH to MH	251
164	4131	1491-0517	1491-0518	VIA BORICA	Fracture multiple: 281'	Structural integrity intact. No action needed.	
165	4131	1491-0492	1491-0489	VIA RIVERA	Fracture: 136', 221'	Structural integrity intact. No action needed.	
166	4131	1545-0474	1545-0466	CRESTRIDGE RD	Fracture multiple: 74'; Fracture: 186'	Lining: MH to MH	200
167	4131	1492-0099	1492-0081	VIA DEL MAR	Fracture multiple: 28'; Fracture: 34'	Structural integrity intact. No action needed.	
168	4131	1491-0468	1491-0467	VIA LORADO	Fracture: 118', 174'	Structural integrity intact. No action needed.	
169	4131	1491-0576	1491-0578	VIA CAMBRON	Fracture multiple: 1'; Fracture: 5'	Structural integrity intact. No action needed.	
170	4131	1546-0155	1492-0008	HAWTHORNE BV	Fracture: 188'; 343'	Structural integrity intact. No action needed.	
171	4131	1545-0022	1545-0023	EASEMENT	Fracture: 1'; Fracture multiple from tap break in: 2'; Fracture multiple: 13'	Structural integrity intact. No action needed.	
172	4131	1653-0207	1653-0204	REDONDELA DR	Fracture: 201'; 288'	Structural integrity intact. No action needed.	
173	4131	1653-0121	1653-0122	GALERITA DR	Fracture: 22', 121'; Fracture multiple: 92', 200'	Structural integrity intact. No action needed.	
174	4131	1653-0201	1653-0202	BANDRA PL	Fracture: 15', 25'	Structural integrity intact. No action needed.	
175	4131	1653-0101	1653-0102	SANTA RENA DR	Fracture: 9', 50'	Structural integrity intact. No action needed.	
176	4131	1654-0111	1654-0110	ENROSE AV	Fracture multiple: 2'; Fracture: 73', 108'	Lining: MH to MH	111
177	4131	1654-0453	1654-0440	NOBLE VIEW PL	Fracture multiple: 101'	Structural integrity intact. No action needed.	
178	4131	1654-0452	1654-0451	CRESTWOOD ST	Fracture: 323'; Fracture multiple: 343'	Lining: MH to MH	347
179	4131	1654-0458	1654-0457	BERNICE DR	Fracture: 6', 73'; Fracture multiple: 55', 191'	Structural integrity intact. No action needed.	
180	4131	1654-0065	1654-0043	VIA CANADA	Fracture: 104', 121'	Structural integrity intact. No action needed.	
181	4131	1654-0011	1654-0010	SPARTA DR	Fracture: 88', 128', 131'	Structural integrity intact. No action needed.	
182	4131	1654-0506	1654-0507	GUNTER RD	Fracture multiple: 2'; Hole at MH 1654-0507 base	CSMD will repair MH base.	
183	4131	1654-0004	1654-0003	EASEMENT	Fracture: 47', 63'	Structural integrity intact. No action needed.	
184	4131	1653-0263	1653-0277	PENINSULA VERDE DR	Fracture: 133'; Fracture multiple: 153'	Lining: MH to MH	174
185	4131	1654-0053	1654-0052	EASEMENT	Fracture: 79', 87'	Structural integrity intact. No action needed.	
186	4131	1654-0060	1654-0059	EASEMENT	Fracture multiple: 1' - 3', 111'; Fracture: 105'	Lining: MH to MH	127
187	412C	1654-0032	1654-0033	EL TESORO PL	Fracture multiple: 2'	Structural integrity intact. No action needed.	
188	4126	1654-0510	1654-0509	GUNTER RD	Fracture multiple: 137'	Structural integrity intact. No action needed.	

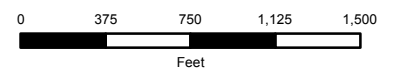
ENCLOSURE 3
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST
 CITY OF RANCHO PALOS VERDES (Y0TV1112C)

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Action	Length of Repair (FT)
189	4122	1653-0092	1653-0093	MONTEREINA DR	Fracture: 220'	Structural integrity intact. No action needed.	
190	4121	1492-0065	1492-0064	RUE LANGLOIS	Fracture: 44', 173'	Structural integrity intact. No action needed.	
191	4121	1491-0577	1491-0576	VIA COLLADO	Fracture: 12'	Structural integrity intact. No action needed.	
192	4121	1653-0110	1653-0111	VELEZ DR	Fracture: 43', 47', 79'	Structural integrity intact. No action needed.	
193	4121	1654-0508	1654-0509	GUNTER RD	Fracture: 78', 121'	Structural integrity intact. No action needed.	
194	4121	1654-0005	1654-0003	SPARTA DR	Fracture: 117'	Structural integrity intact. No action needed.	
195	4121	1599-0083	1599-0082	EASEMENT	Fracture: 1'; Fracture multiple: 155'	Structural integrity intact. No action needed.	
196	4121	1654-0424	1654-0425	WESTERN AV	Fracture: 163'	Structural integrity intact. No action needed.	
197	4112	1492-0109	1492-0108	VIA LA CRESTA	Fracture multiple: 190'	Structural integrity intact. No action needed.	
198	4111	1491-0532	1491-0533	CAMINO PORVENIR	Fracture: 2'	Structural integrity intact. No action needed.	
199	4111	1491-0489	1491-0490	EASEMENT	Fracture: 48', 63'	Structural integrity intact. No action needed.	
200	4100	1492-0037	1492-0038	RUE DE LA PIERRE	Fracture: 123'	Structural integrity intact. No action needed.	
201	4100	1491-0607	1491-0606	CREST RD	Fracture multiple: 47'	Structural integrity intact. No action needed.	
202	4100	1492-0081	1492-0074	VIA RIVERA	Fracture multiple: 112'	Structural integrity intact. No action needed.	
203	4100	1491-0498	1491-0497	VIA VICTORIA	Fracture: 126'	Structural integrity intact. No action needed.	
204	4100	1546-0263	1546-0257	EASEMENT	Hole: 128'	Structural integrity intact. No action needed.	
205	4100	1491-0545	1491-0544	EASEMENT	Fracture: 41'	Structural integrity intact. No action needed.	
206	4100	1545-0025	1545-0024	EASEMENT	Broken: 82'	Structural integrity intact. No action needed.	
207	4100	1653-0246	1653-0245	EASEMENT	Fracture: 15'	Structural integrity intact. No action needed.	
208	4100	1653-0243	1653-0242	EASEMENT	Fracture: 180'	Structural integrity intact. No action needed.	
209	4100	1653-0164	1653-0163	AVENIDA APRENDA	Fracture: 115'	Structural integrity intact. No action needed.	
210	4100	1653-0129	1653-0130	DELASONDE DR	Fracture: 6'	Structural integrity intact. No action needed.	
211	4100	1653-0366	1653-0124	GALERITA DR	Fracture: 14' (at wyne), 62'	Structural integrity intact. No action needed.	
212	4100	1654-0109	1654-0108	MCARTHUR ST	Fracture multiple: 29', 2' (Reverse)	Structural integrity intact. No action needed.	
213	4100	1654-0455	1654-0454	NOBLES VIEW DR	Fracture: 228', 233'	Structural integrity intact. No action needed.	
214	4100	1653-0072	1653-0071	WESTERN AV	Fracture multiple: 54' - 56'	Structural integrity intact. No action needed.	
215	4100	1654-0012	1654-0011	SPARTA DR	Fracture: 23'	Structural integrity intact. No action needed.	
216	4100	1654-0515	1654-0514	DORADO DR	Fracture multiple: 39'	Structural integrity intact. No action needed.	
217	4100	1654-0514	1654-0513	DORADO DR	Fracture: 66'	Structural integrity intact. No action needed.	
218	4100	1545-0809	1545-0808	EASEMENT	Fracture multiple: 119'	Structural integrity intact. No action needed.	
219	4100	1545-0241	1545-0243	EASEMENT	Fracture: 2', 26', 100', 107', 121', 128', 131', 138', 151', 155'; Fracture multiple: 83', 4' (Reverse)	Structural integrity intact. No action needed.	
220	4100	1545-0242	1545-0243	EASEMENT	Fracture: 2', 7', 1' (Reverse)	Structural integrity intact. No action needed.	
221	4100	1491-0585	1491-0584	EASEMENT	Fracture multiple: 14'	Structural integrity intact. No action needed.	

ENCLOSURE 3
CCTV PROJECT
Y0TV112C

CITY OF RANCHO PALOS VERDES

Quick Structural Rating (QSR)

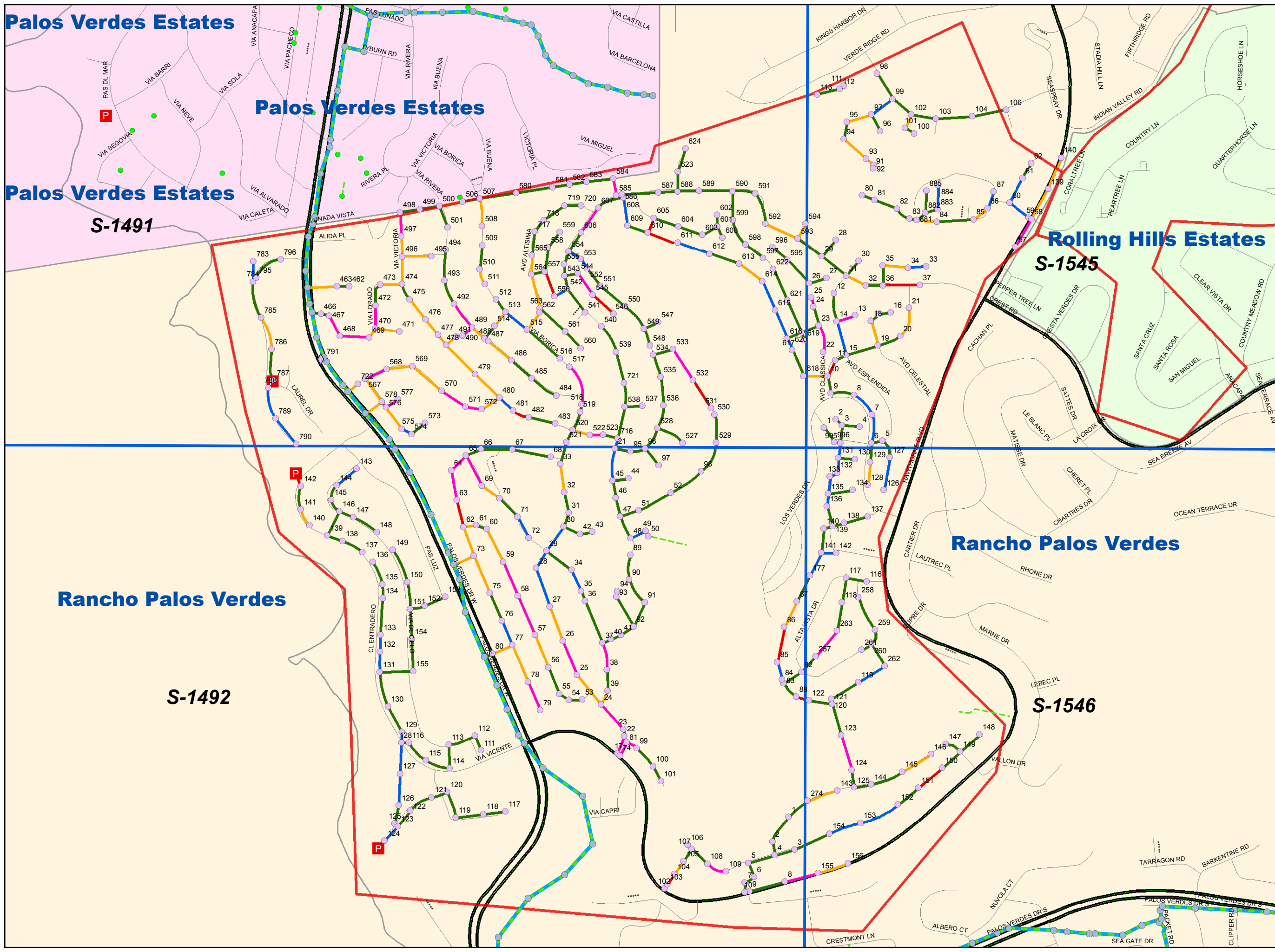


Legend

- SMD Sewers
- QSR
 - 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
 - 4: SIGNIFICANT
 - 5: MOST SIGNIFICANT
- SMD Manholes
- Manhole Type
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
- SMD Pump Stations
- SMD Treatment Plants
- Trunk Sewerlines
- Trunk MH
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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September 2016



Palos Verdes Estates

Palos Verdes Estates

Palos Verdes Estates

S-1491

Rolling Hills Estates

S-1545

Rancho Palos Verdes

Rancho Palos Verdes

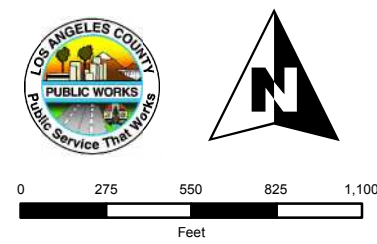
S-1492

S-1546

ENCLOSURE 3
CCTV PROJECT
Y0TV112C

CITY OF RANCHO
PALOS VERDES

Quick
Structural
Rating
(QSR)

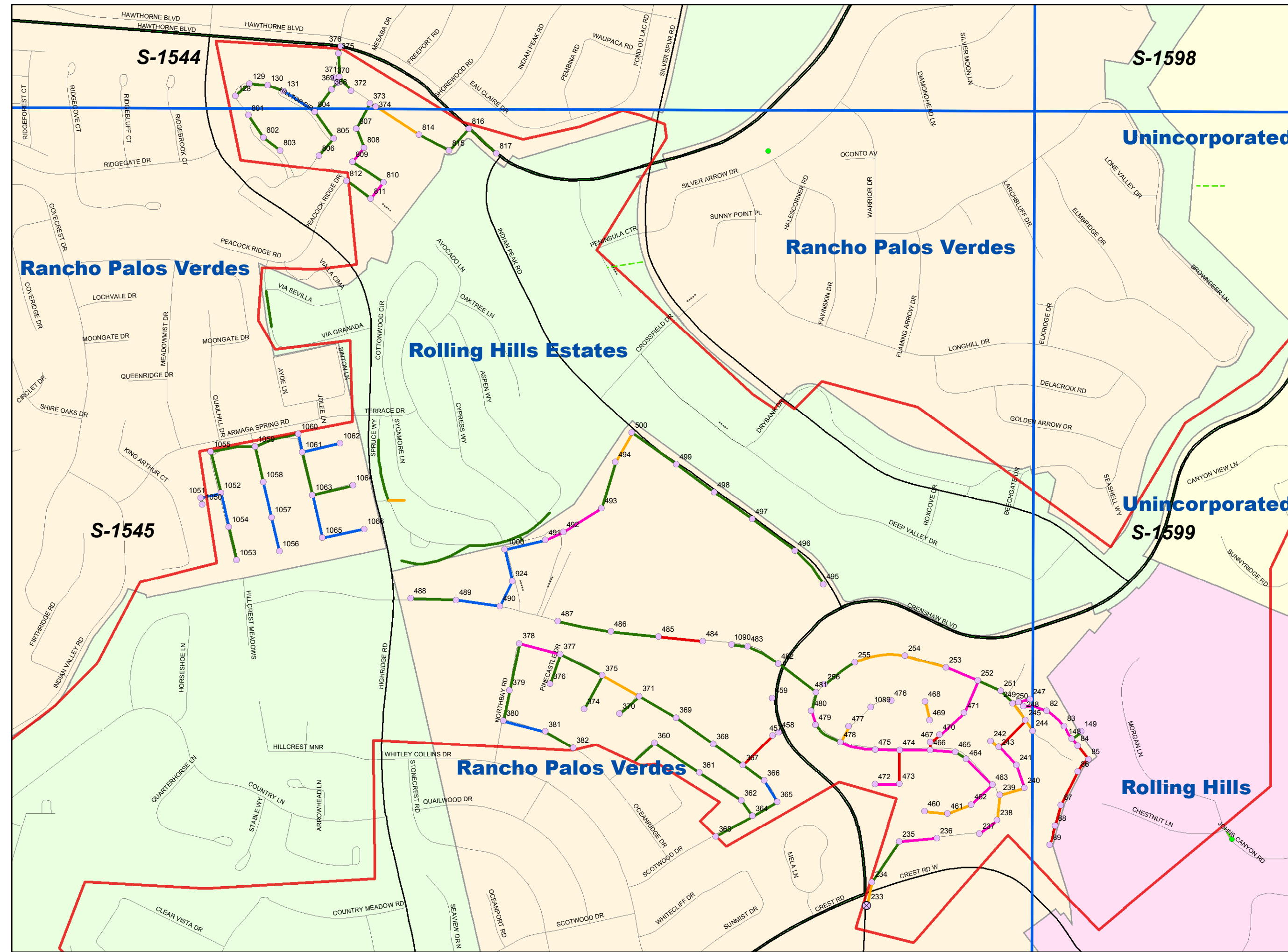


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ENCLOSURE 3 CCTV PROJECT Y0TV112C

CITY OF RANCHO PALOS VERDES

Quick Structural Rating (QSR)

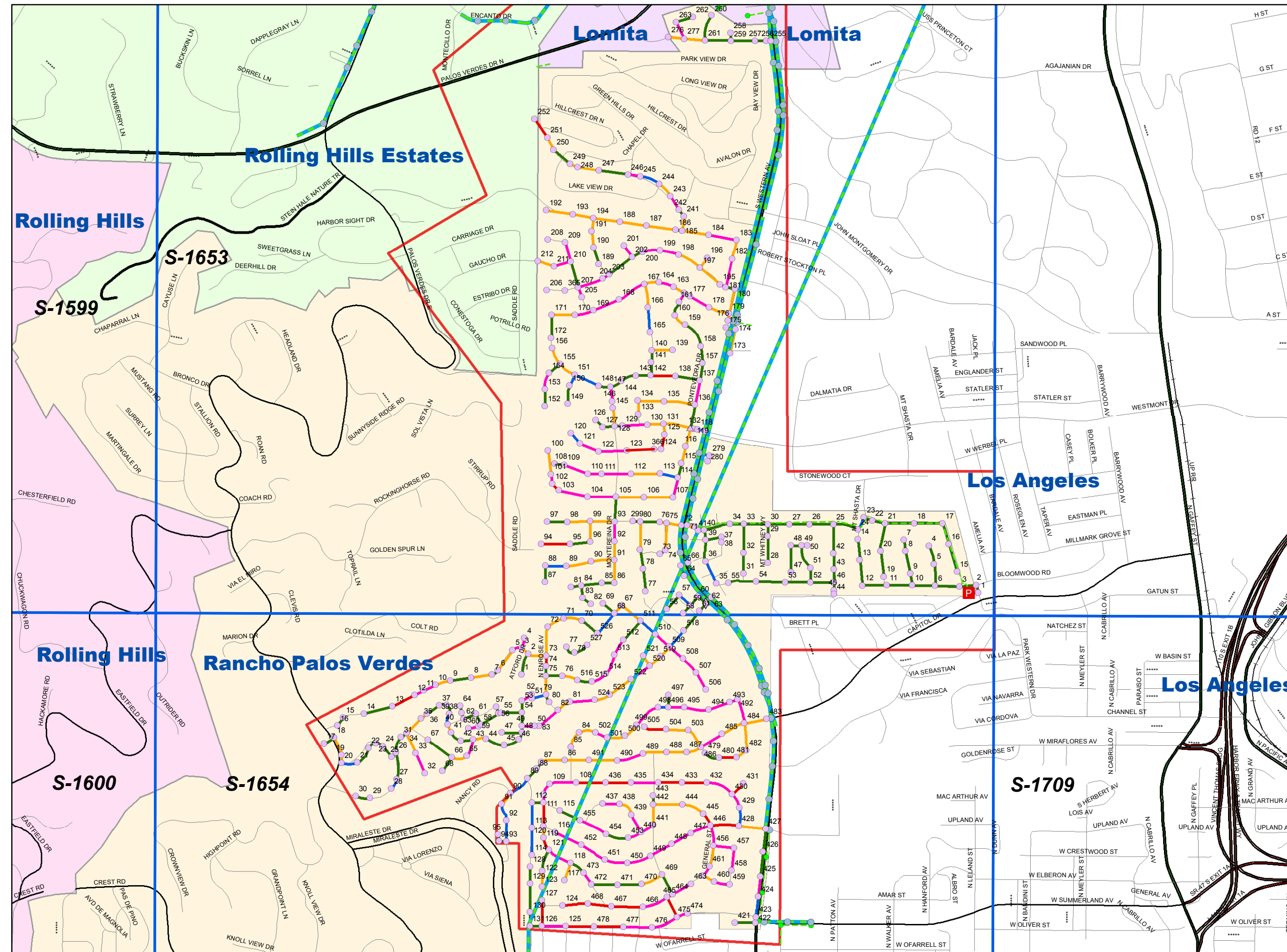


Legend

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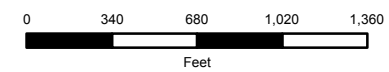
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ENCLOSURE 3
CCTV PROJECT
Y0TV112C

CITY OF RANCHO
PALOS VERDES

Point Repair
& Lining

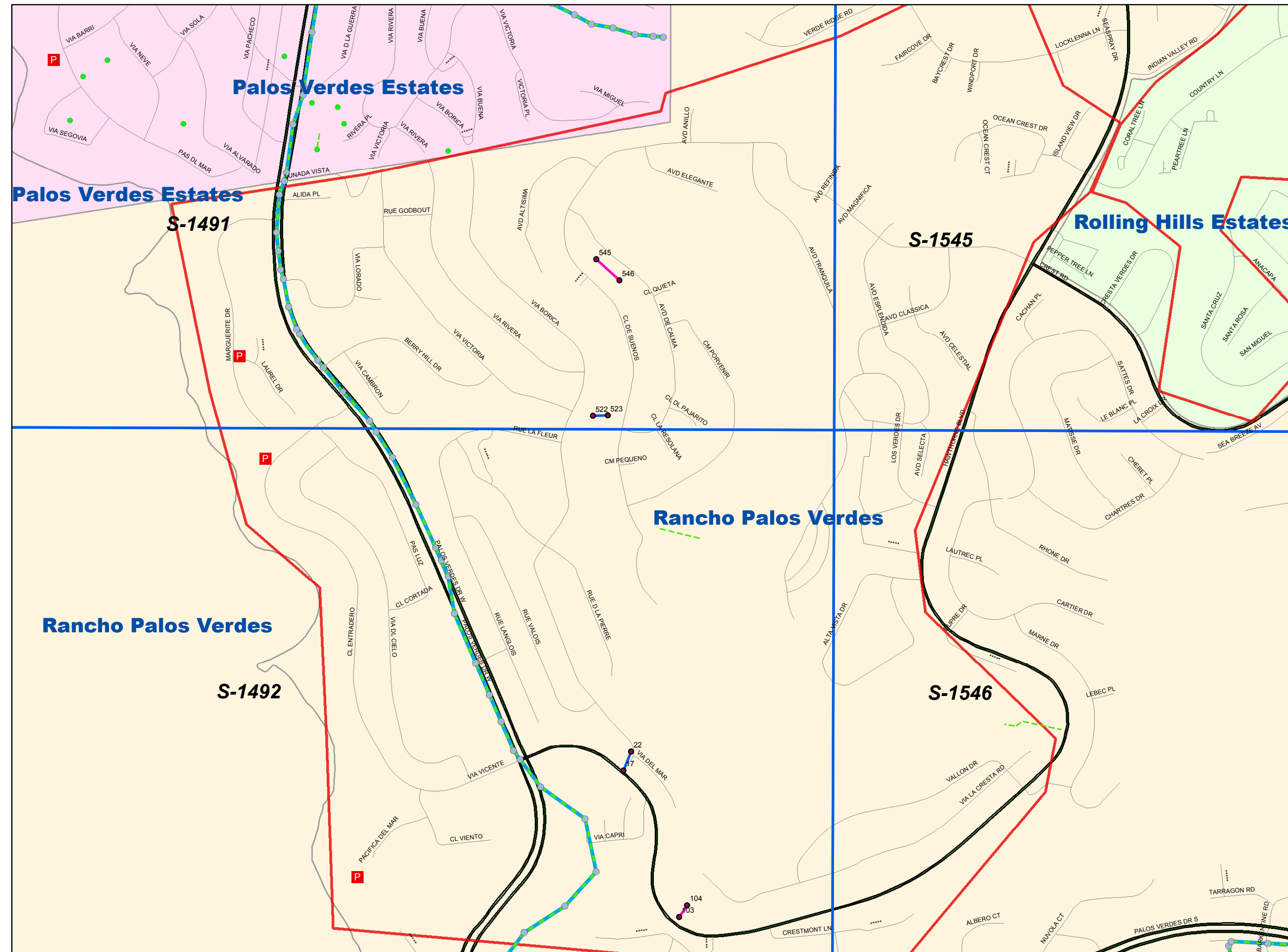


Legend

- Point Repair
- Lining
- SMD Manholes
- Manhole Type
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants
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ENCLOSURE 3
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Y0TV112C

CITY OF RANCHO PALOS VERDES

Point Repair & Lining

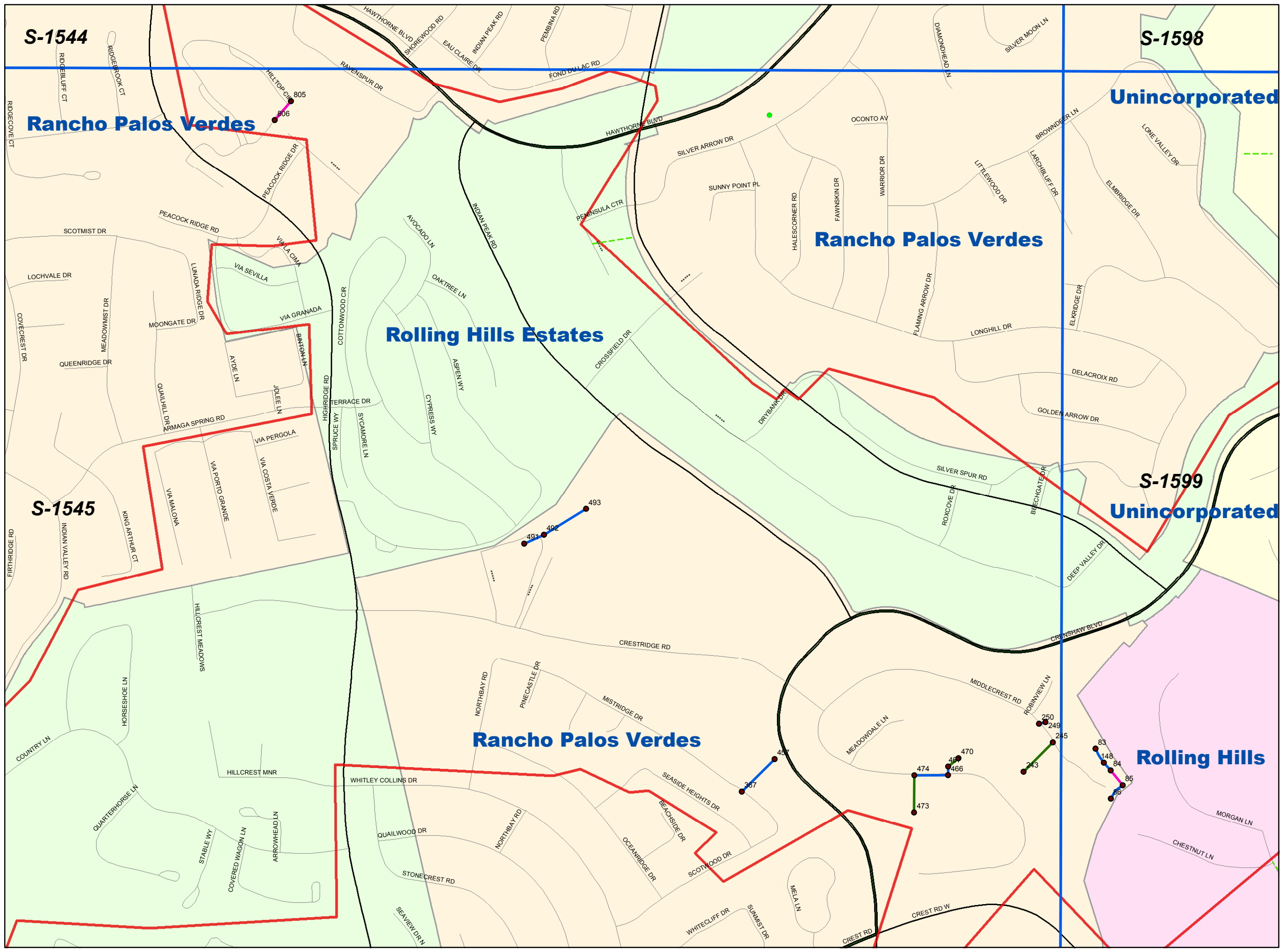


Legend

- Point Repair & Lining
- Point Repair
- Lining
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- Shallow
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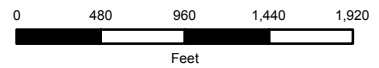
September 2016



ENCLOSURE 3
CCTV PROJECT
Y0TV112C

CITY OF RANCHO
PALOS VERDES

Point Repair
& Lining

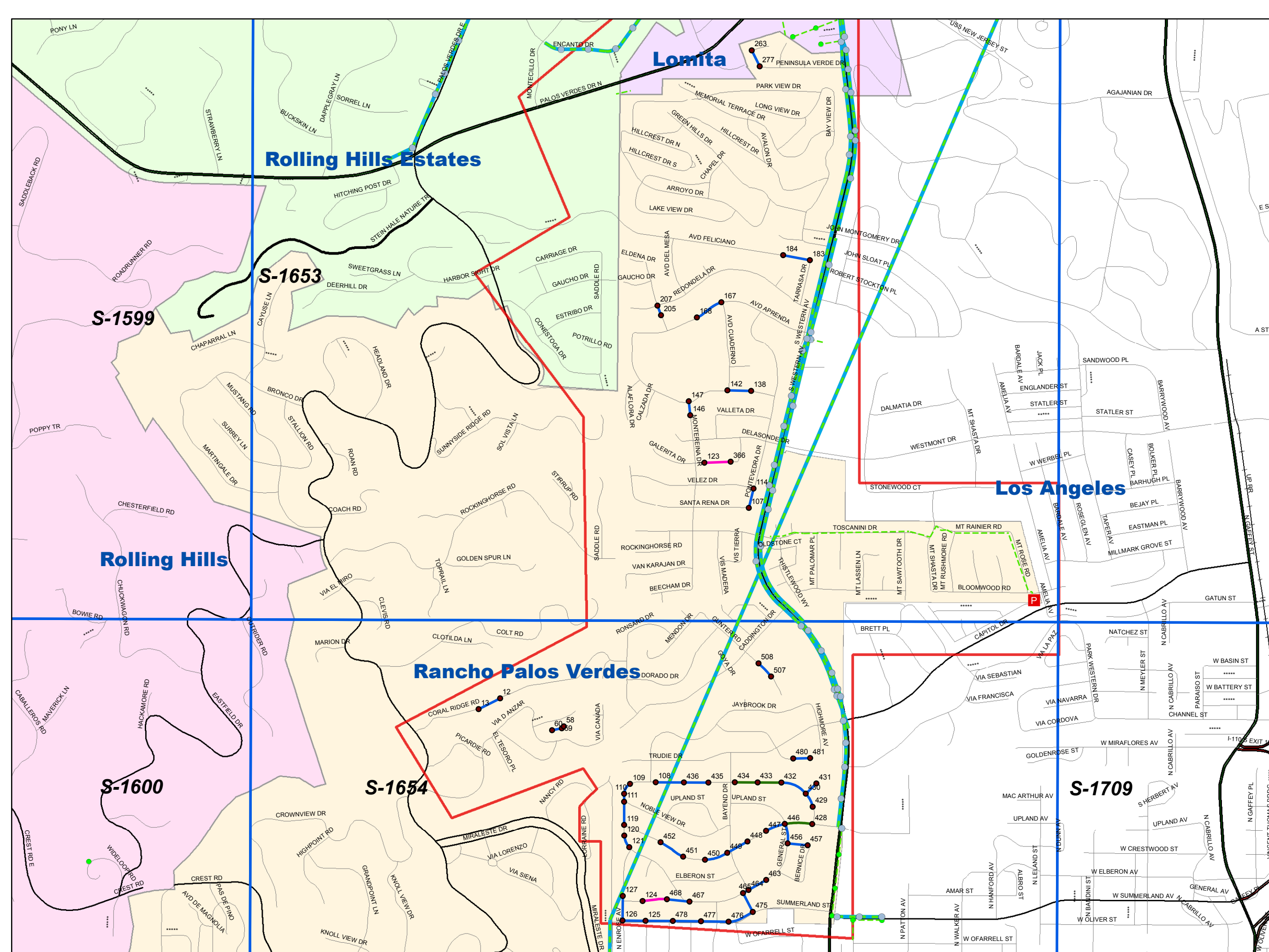


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September 2016



S-1599

S-1653

Rolling Hills

Rancho Palos Verdes

Los Angeles

S-1600

S-1654

S-1709