


August 8, 2019

WA

TO: Nicholas Agbobu  
Engineering, Budget, and Office Operations



FROM: Robert Swartz  
Field Operations

**CONSOLIDATED SEWER MAINTENANCE DISTRICT  
CONDITION ASSESSMENT PROGRAM REPORT  
UNINCORPORATED COUNTY**

This memo is to inform you that the Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed a Sewer Condition Assessment Program of a portion of the unincorporated County's sewer system maintained by the District's North Yard.

The enclosed Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in the District'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 cleaning schedule for continued monitoring. 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.

Attach.

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

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PROJECT NAME:	Y0TV1314A1	PROJECT MGR:	Eric Liu
PROJECT DATE:	10/28/2013	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	5	MAP PAGE(S):	1255, 1258, 1293, 1294, 1295, 1296, 1297, 1331, 1332, 1333, 1334, 1335, 1372, 1373, 1374, 1416, 1417, 1459, 1460, 1461, 1512 & 1513
Report By:	Hai Luong	Report Date:	06/18/2019

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**INTRODUCTION**

As part of the Sewer Condition Assessment Program, the Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed the condition assessment of 76,997 feet or 5.9 percent of the unincorporated County's sewer system maintained by the District's North Yard.

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

- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Map(Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Priority Map (Enclosure 3)

The District has now completed the condition assessment of 310,142 feet of the unincorporated County's sewer system maintained by the District's North Yard. Previous Condition Assessment Reports dated December 04, 2008, June 03, 2009 January 04, 2011 and August 24, 2012 have been provided to you. 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. Y0TV1314A1 included sewer lines located in the unincorporated County of Los Angeles and the cities of Santa Clarita. Enclosed for your reference is an overview map of the project area within the unincorporated County (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:

<b>Grade</b>	<b>Defect Grade Description</b>
<b>1:</b>	<b>MINOR</b>
<b>2:</b>	<b>MINOR TO MODERATE</b>
<b>3:</b>	<b>MODERATE</b>
<b>4:</b>	<b>SIGNIFICANT</b>
<b>5:</b>	<b>MOST SIGNIFICANT</b>

## **MAINTENANCE REPORT**

Our inspection revealed that approximately 95.3 percent of the system televised in unincorporated County as part of Project No. Y0TV1314A1 was free of significant blockages or restrictions that would impede sewer flows. However, the remaining 4.7 percent of the pipe segments within the unincorporated County had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken.

A color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

### **QUICK MAINTENANCE RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. OF SEGMENTS</b>
1: Minor	68,169	88.5	335
2: Minor to Moderate	5,204	6.8	24
3: Moderate	585	0.8	2
4: Significant	2,642	3.4	17
5: Most Significant	397	0.5	2
TOTAL	76,997	100.0	380

#### ***High Water Levels and Infiltration***

Our inspection revealed that High Water Levels and Infiltration were not detected in any pipe segment in the County's sewers.

#### **STRUCTURAL REPORT**

Our inspection revealed that approximately 95.4 percent of the inspected pipe segments within the unincorporated County were free of severe structural defects. However, the remaining 4.6 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 58 in the Quick Structural Rating Report Priority List (Enclosure 3), which warrant a corrective action, the proposed corrective action will be programmed in the next 24 months as part of the ongoing Accumulative Capital Outlay Program.

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

**QUICK STRUCTURAL RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. OF SEGMENTS</b>
1: Minor	57,303	74.4	288
2: Minor to Moderate	11,928	15.5	58
3: Moderate	4,254	5.5	20
4: Significant	2,642	3.4	11
5: Most Significant	870	1.2	3
<b>TOTAL</b>	<b>76,997</b>	<b>100.0</b>	<b>380</b>

**CONDITION ASSESSMENT PROJECTS**

The Sewer Condition Assessment Program performed the condition assessment of the sewer lines within the unincorporated County maintained by the North Yard 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>
2005-2006	Y0TV0506F	137,627	10.6	COMPLETED
2006-2007	Y0TV0607C	1,757	0.1	COMPLETED
2008-2009	Y0TV0809D	38,974	3.0	COMPLETED
2009-2010	Y0TV0910A	12,583	1.0	COMPLETED
2009-2010	Y0TV0910B	4,177	0.3	COMPLETED
2009-2010	Y0TV0910D	38,027	2.9	COMPLETED
2013-2014	Y0TV1314A1	76,997	5.9	COMPLETED
2013-2014	Y0TV1314A2	173,419	13.5	COMPLETED
2018-2019	Y0TV1819C	448,183	34.6	FUTURE
2018-2019	Y0TV1819D	364,087	28.1	FUTURE
<b>TOTAL</b>		<b>1,295,831</b>	<b>100.0</b>	

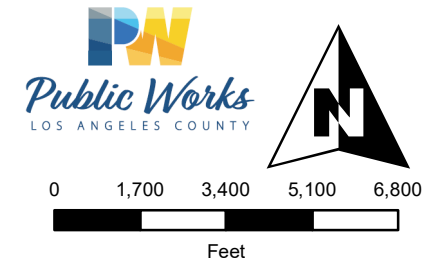
ENCLOSURE 1:

Project overview Map

# OVERVIEW MAP

## CCTV PROJECT Y0TV1314A1

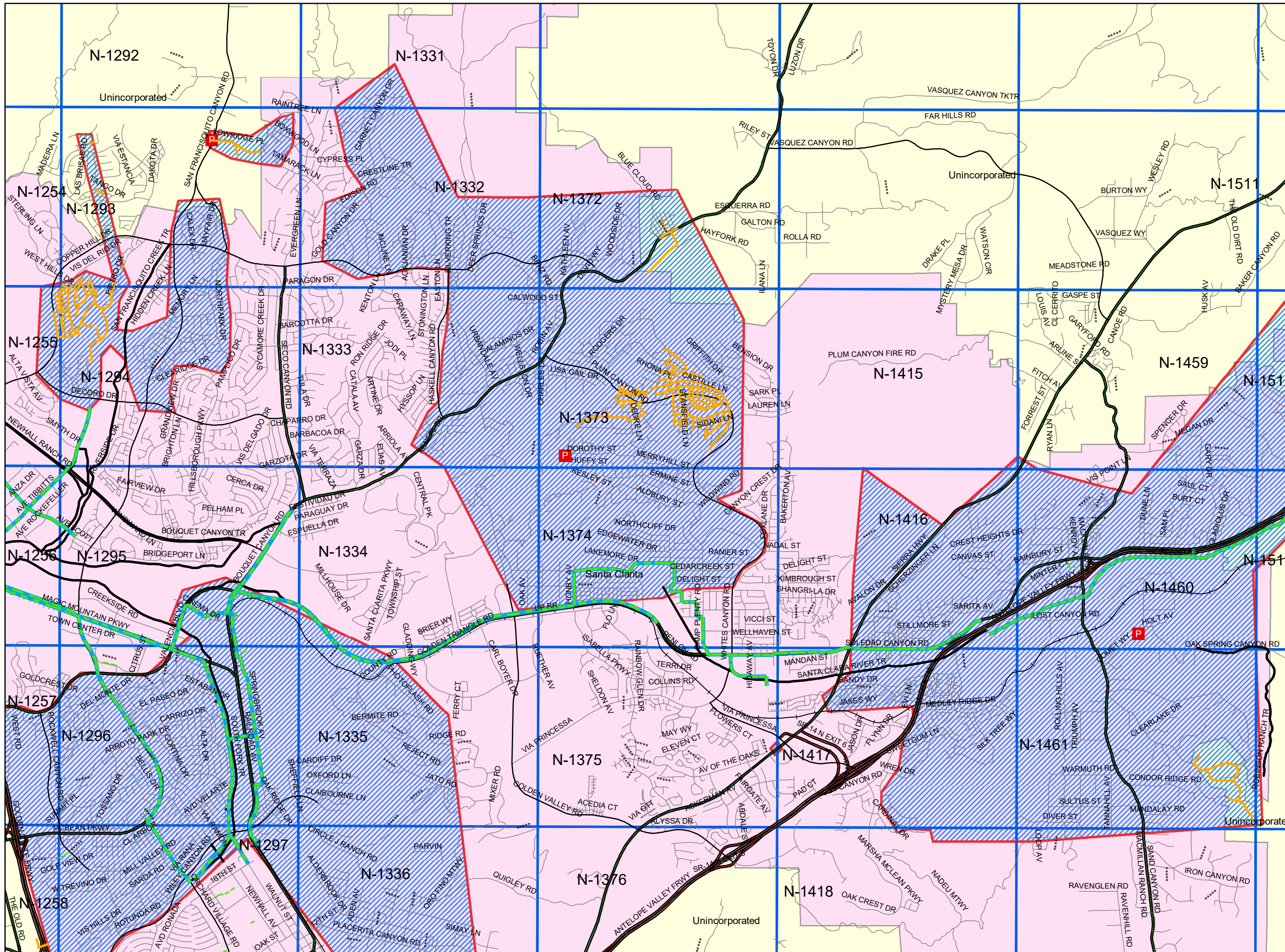
COUNTY  
UNINCORPORATED



### Legend

- SMD Sanitary Sewers
- SMD Manholes**
  - Other
  - Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
  - SMD Pump Stations
  - SMD Treatment Plants
- Maintained by Others:**
  - Trunk Sewerlines
  - Non SMD Sanitary Sewers
  - Non SMD Maintained MH
  - SMD Operations Maps
  - Y0TV1314A1

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## ENCLOSURE 2:

- Quick Maintenance Rating Map



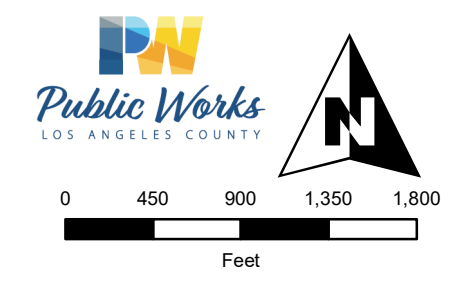
# ENCLOSURE 2

## CCTV PROJECT

# Y0TV1314A1

COUNTY UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD Sanitary Sewers QMR

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

#### SMD Manholes

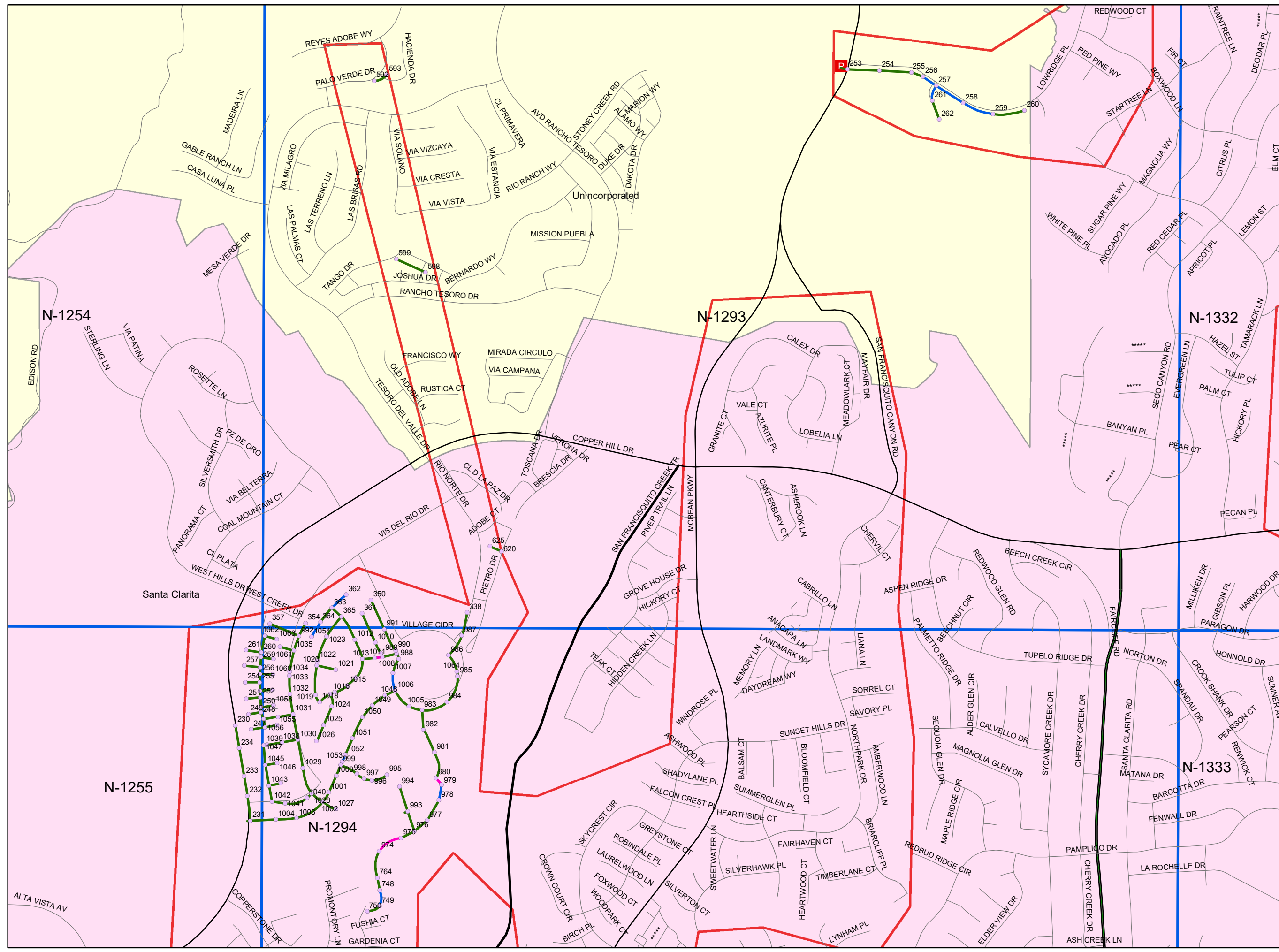
- Other
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

#### Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1314A1

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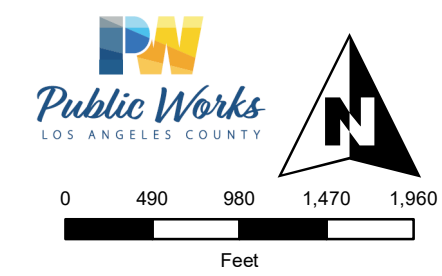
# ENCLOSURE 2

## CCTV PROJECT

### YOTV1314A1

COUNTY UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



#### Legend

##### SMD Sanitary Sewers QMR

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##### SMD Manholes

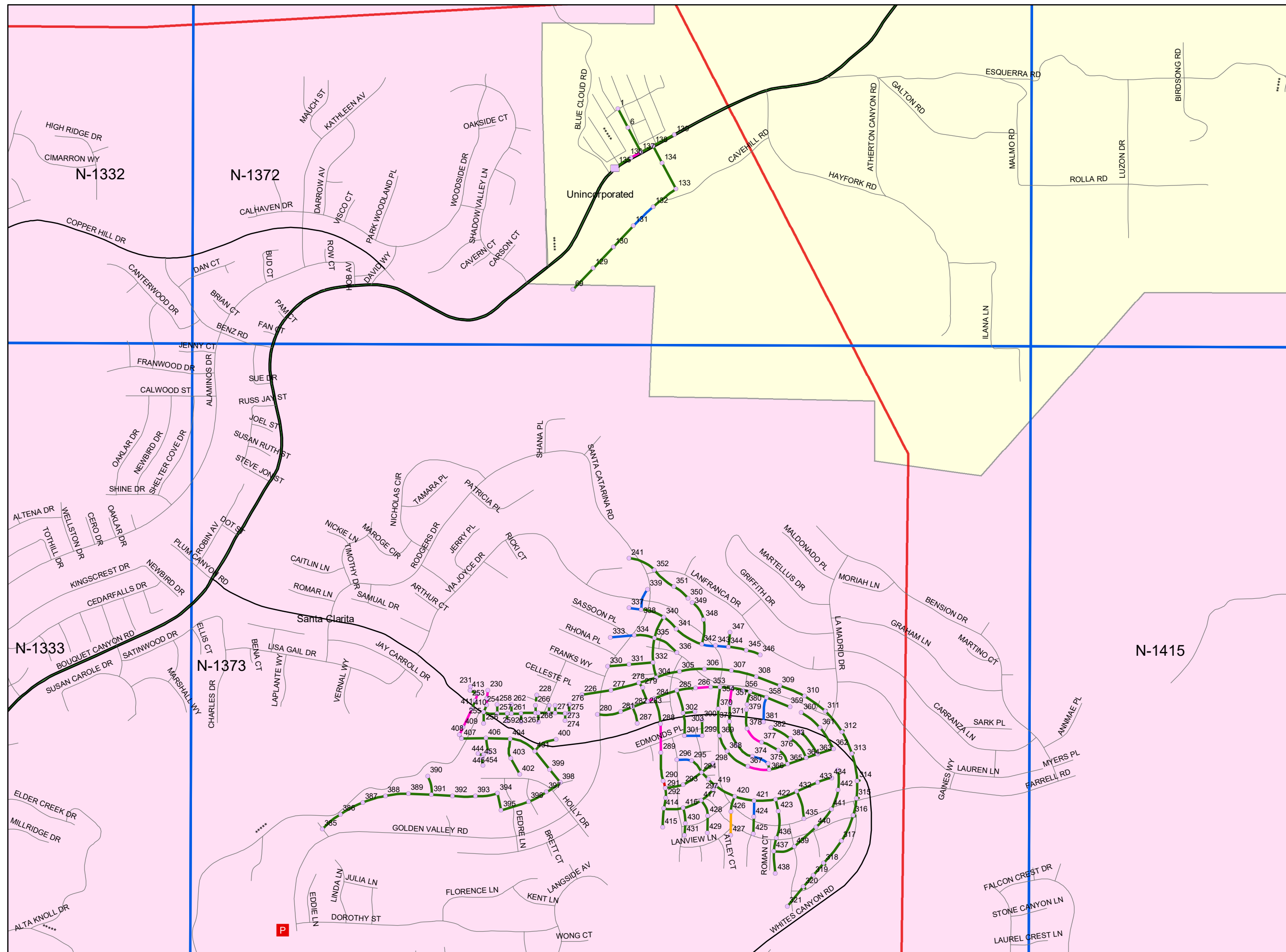
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

##### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
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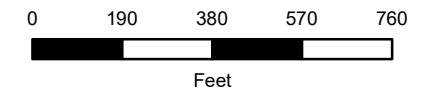
# ENCLOSURE 2

## CCTV PROJECT

### YOTV1314A1

COUNTY UNINCORPORATED

QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD Sanitary Sewers QMR

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#### SMD Manholes

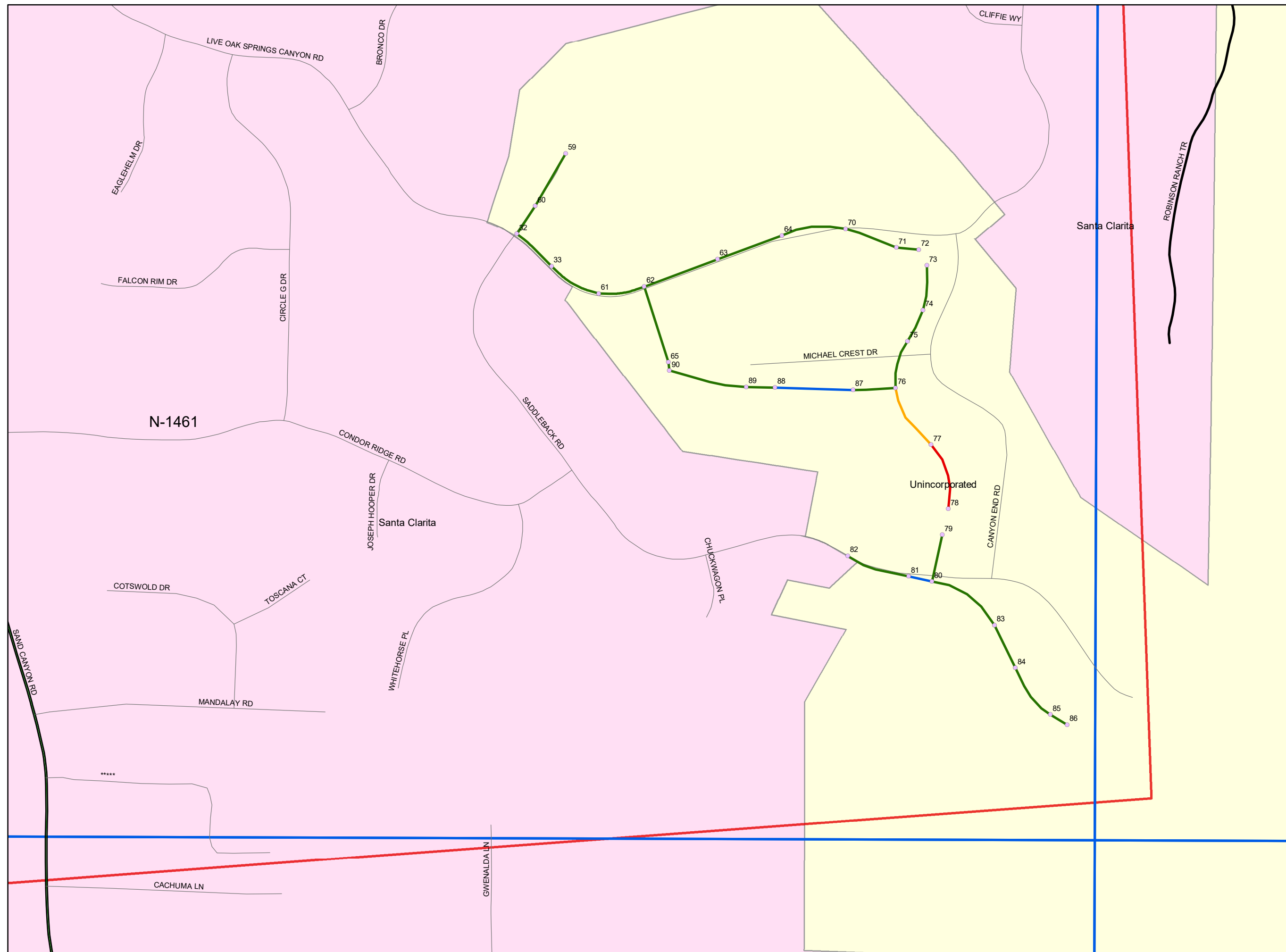
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

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## ENCLOSURE 3:

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

**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**UNINCORPORATED COUNTY OF LOS ANGELES NORTH YARD (Y0TV1314A1)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	1373-0370	1373-0354	LARODA LN	Fractures; Broken	Lining
2	1373-0366	1373-0367	LARODA LN	No structural deficiencies	No action needed*
3	1294-0979	1294-0978		No structural deficiencies	No action needed*
4	1294-0983	1294-0982		No structural deficiencies	No action needed*
5	1373-0420	1373-0419	SIDANI LN	No structural deficiencies	No action needed*
6	1293-0258	1293-0257	LOWRIDGE PL	Fracture multiple	Lining
7	1294-0975	1294-0974		No structural deficiencies	No action needed*
8	1294-0982	1294-0981		No structural deficiencies	No action needed*
9	1294-0974	1294-0764		No structural deficiencies	No action needed*
10	1294-1031	1294-1030	VISTA DEL RIO DR	Fracture multiple	No action needed*
11	1294-0980	1294-0979		No structural deficiencies	No action needed*
12	1373-0362	1373-0363	LARODA LN	Fractures	No action needed*
13	1372-0138	1372-0134		Fracture multiple	Lining
14	1461-0077	1461-0076	CANYON END RD	Fracture multiple	No action needed*

\*Structural deficiencies are categorized into groups of defects or observations with a wide range of severity. Each of these deficiencies received additional post inspection review and some of these were determined not likely to interfere with the normal operation of the sewer line due to the severity, size, and/or location of the deficiency. These segments will be reviewed during the next cycle of CCTV inspections.

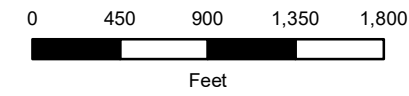
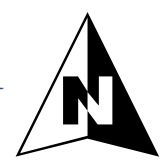
# ENCLOSURE 2

## CCTV PROJECT

# Y0TV1314A1

COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD Sanitary Sewers QSR

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- 5: MOST SIGNIFICANT

#### SMD Manholes

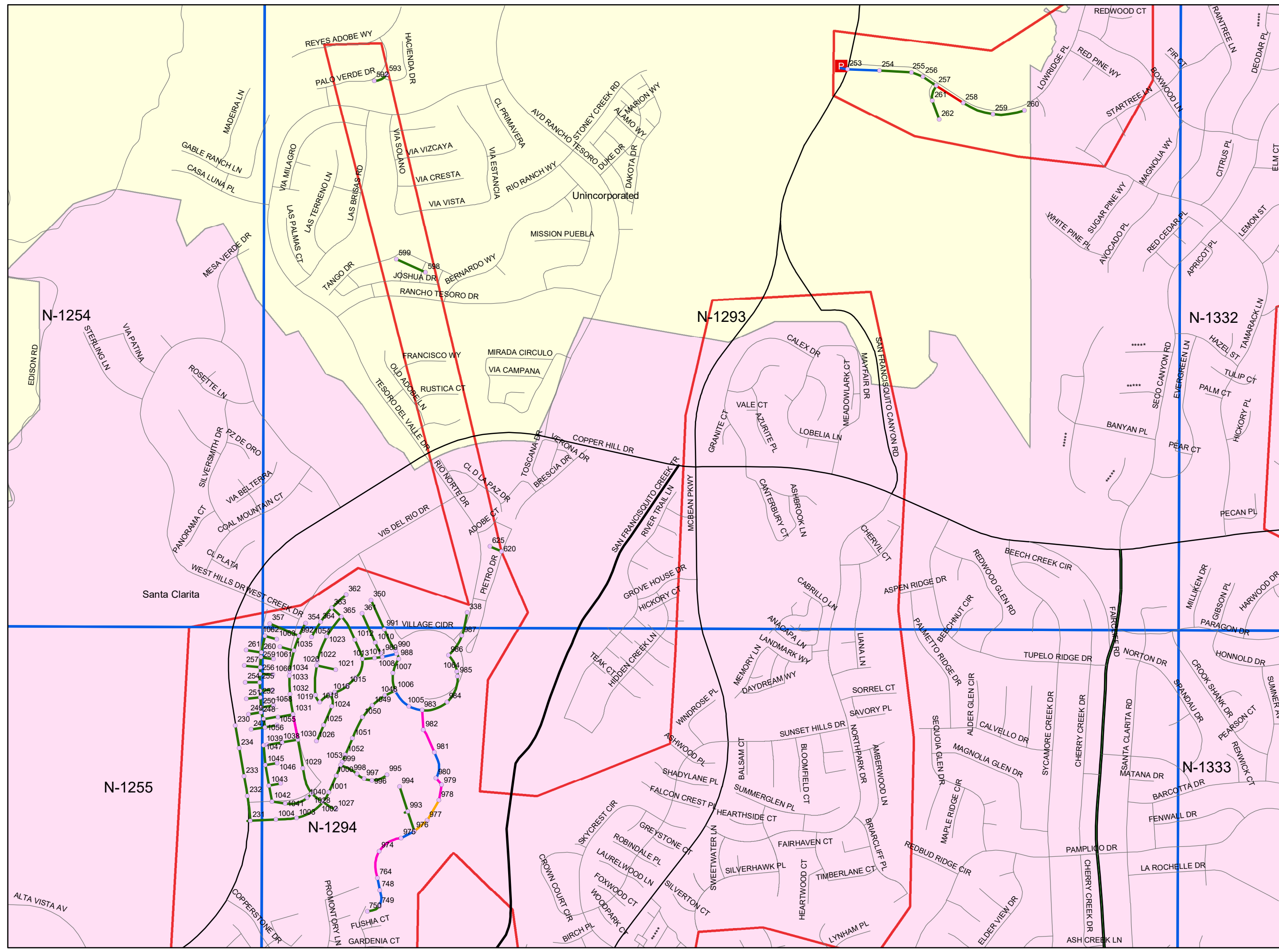
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

- - - Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV1314A1

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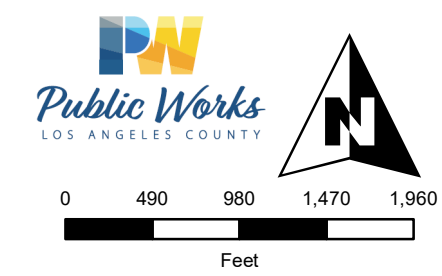
# ENCLOSURE 2

## CCTV PROJECT

### YOTV1314A1

COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD Sanitary Sewers QSR

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#### SMD Manholes

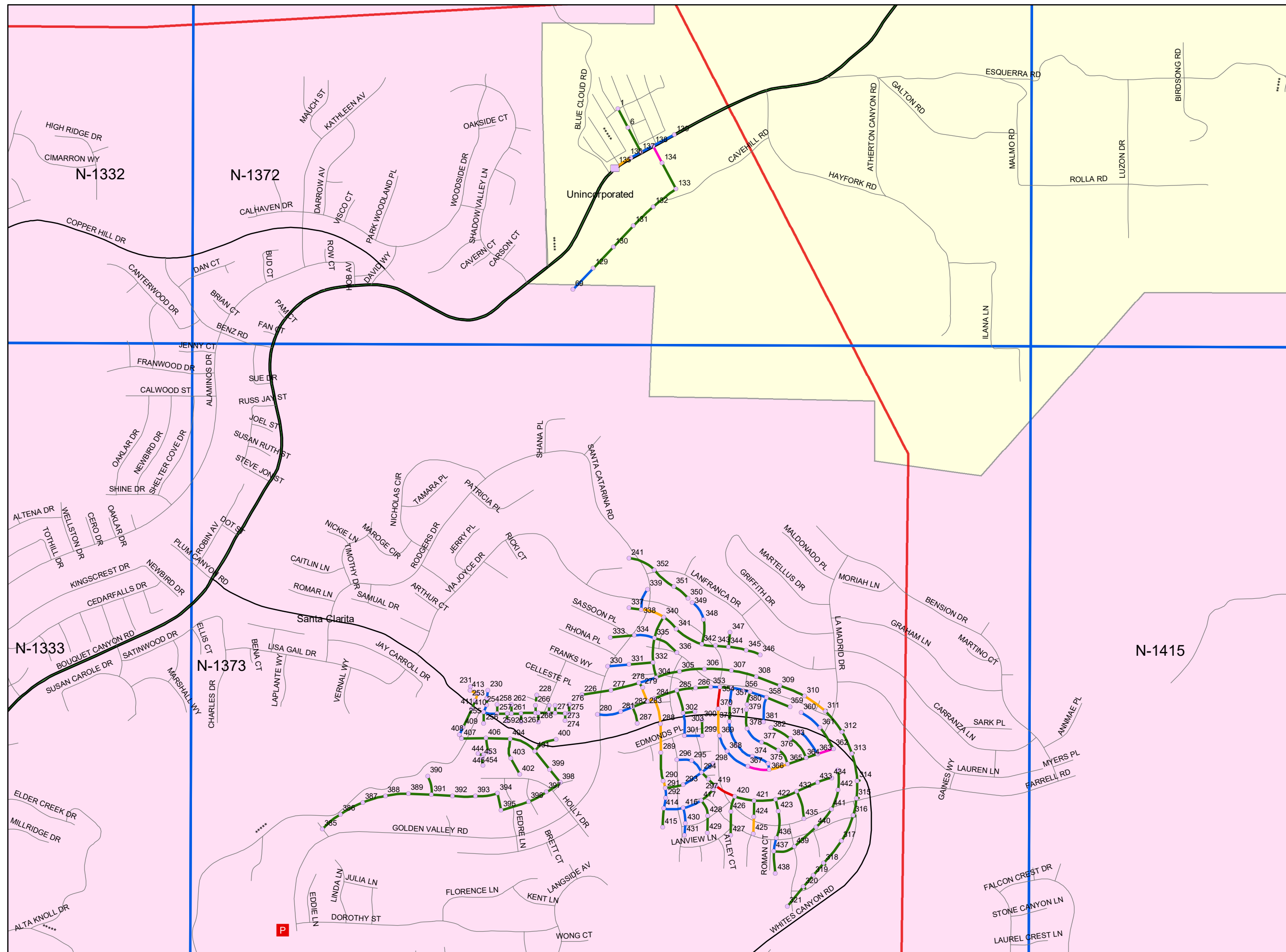
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
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#### Maintained by Others:

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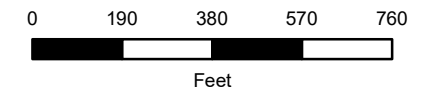
# ENCLOSURE 2

## CCTV PROJECT

### YOTV1314A1

COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD Sanitary Sewers QSR

- 1: MINOR
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- 3: MODERATE
- 4: SIGNIFICANT
- 5: MOST SIGNIFICANT

#### SMD Manholes

Other

#### Manhole Type

- Standard
- DROP
- Shallow
- Trap
- Siphon

SMD Pump Stations

SMD Treatment Plants

#### Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH

SMD Operations Maps

YOTV1314A1

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