


August 29, 2018

 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 East 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.

JG:

Attach.

bc: RS, FV, File (Y0TV1011A)

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

PROJECT NAME: Y0TV1011A	PROJECT MGR:	Eric Liu
PROJECT DATE: 02/01/11-07/30/011	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s): 5	MAP PAGE(S):	2349,2603,2305,2304,2348, 2220,2262,2263,2219,2221, & 2347
Report By: Jonathan Gonzalez	Report Date:	8/29/18

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 496,819 feet or 14.0 percent of the unincorporated County's sewer system maintained by the District's East 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, High Water Levels List and 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 1,335,879 feet of the unincorporated County's sewer system maintained by the District's East Yard. Previous Condition Assessment Reports dated April 6, 2009, October 8, 2009, June 20, 2013, May 28, 2009, January 5, 2011, May 20, 2011, November 18, 2016, and November 28, 2016 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. Y0TV10111A included sewer lines located in the unincorporated Los Angeles County and the cities of La Habra Heights, Irwindale, Glendora, Diamond Bar, and Commerce. 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:

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

MAINTENANCE REPORT

Our inspection revealed that approximately 83.7 percent of the system televised in unincorporated County as part of Project No. Y0TV10111A was free of significant blockages or restrictions that would impede sewer flows. However, the remaining 16.3 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

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL OF INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	1,871	0.4	9
2: Minor to Moderate	416,101	83.4	1875
3: Moderate	32,921	6.6	133
4: Significant	43,083	8.7	179
5: Most Significant	4,926	1.0	19
TOTAL	498,902	100.0	2215

High Water Levels

Our inspection revealed that approximately 99.6 percent of the system televised has adequate capacity. Approximately 0.4 percent of the segments inspected exhibited visual signs associated with high water levels. The capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicate the camera was underwater or there were sags in the line. A sewer pipe is considered at capacity when 50 percent of the diameter of the sewer pipe is full of water. However, there are conditions in which the Water Level or Water Mark has reached 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage caused by debris in the sewer lines, or a sag in the line. Therefore, additional review of these pipe segments was conducted to determine if any capacity issues exist.

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

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 segment in the County's sewers.

STRUCTURAL REPORT

Our inspection revealed that approximately 97.5 percent of the inspected pipe segments within the unincorporated County were free of severe structural defects. However, the remaining 2.5 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

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL OF INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	445,491	89.2	1989
2: Minor to Moderate	11,615	2.3	45
3: Moderate	29,592	6.0	124
4: Significant	7,604	1.5	38
5: Most Significant	4,600	1.0	19
TOTAL	498,902	100.0	2,215

CONDITION ASSESSMENT PROJECTS

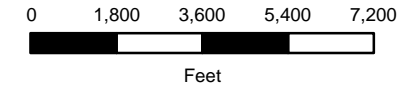
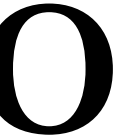
The Sewer Condition Assessment Program performed the condition assessment of the sewer lines within the unincorporated County maintained by the East Yard according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-06	Y0TV0506D	42,947	1.2	COMPLETED
2005-06	Y0TV0506E	159,634	4.5	COMPLETED
2007-08	Y0TV0708E	2,354	0.1	COMPLETED
2007-08	Y0TV0708F	193,305	5.4	COMPLETED
2008-09	Y0TV0809A	212,901	6.0	COMPLETED
2008-09	Y0TV0809C	301,636	8.4	COMPLETED
2009-10	Y0TV0910B	1,675	0.1	COMPLETED
2009-10	Y0TV0910C	224,161	6.2	COMPLETED
2010-11	Y0TV1011A	498,902	14.0	COMPLETED
2011-12	Y0TV1112B	766,612	21.4	REPORT IN PROGRESS
2013-14	Y0TV1314B1	291,751	8.2	REPORT IN PROGRESS
2013-14	Y0TV1415B2	324,415	9.1	REPORT IN PROGRESS
2014-15	Y0TV1415B	554,892	15.5	REPORT IN PROGRESS
TOTAL		3,575,185	100.0	

ENCLOSURE 1

Project Overview Map

OVERVIEW MAP
 CCTV PROJECT
Y0TV1011A
 COUNTY
 UNINCORPORATED



Legend

JUR, S_QMR

SEWER LINES

SMD Manholes

U Other

Manhole Type

(Standard

* DROP

Shallow

W Trap

? Siphon

I SMD Pump Stations

SMD Treatment Plants

Maintained by Others:

Trunk Sewerlines

Non SMD Sanitary Sewers

Non SMD Maintained MH

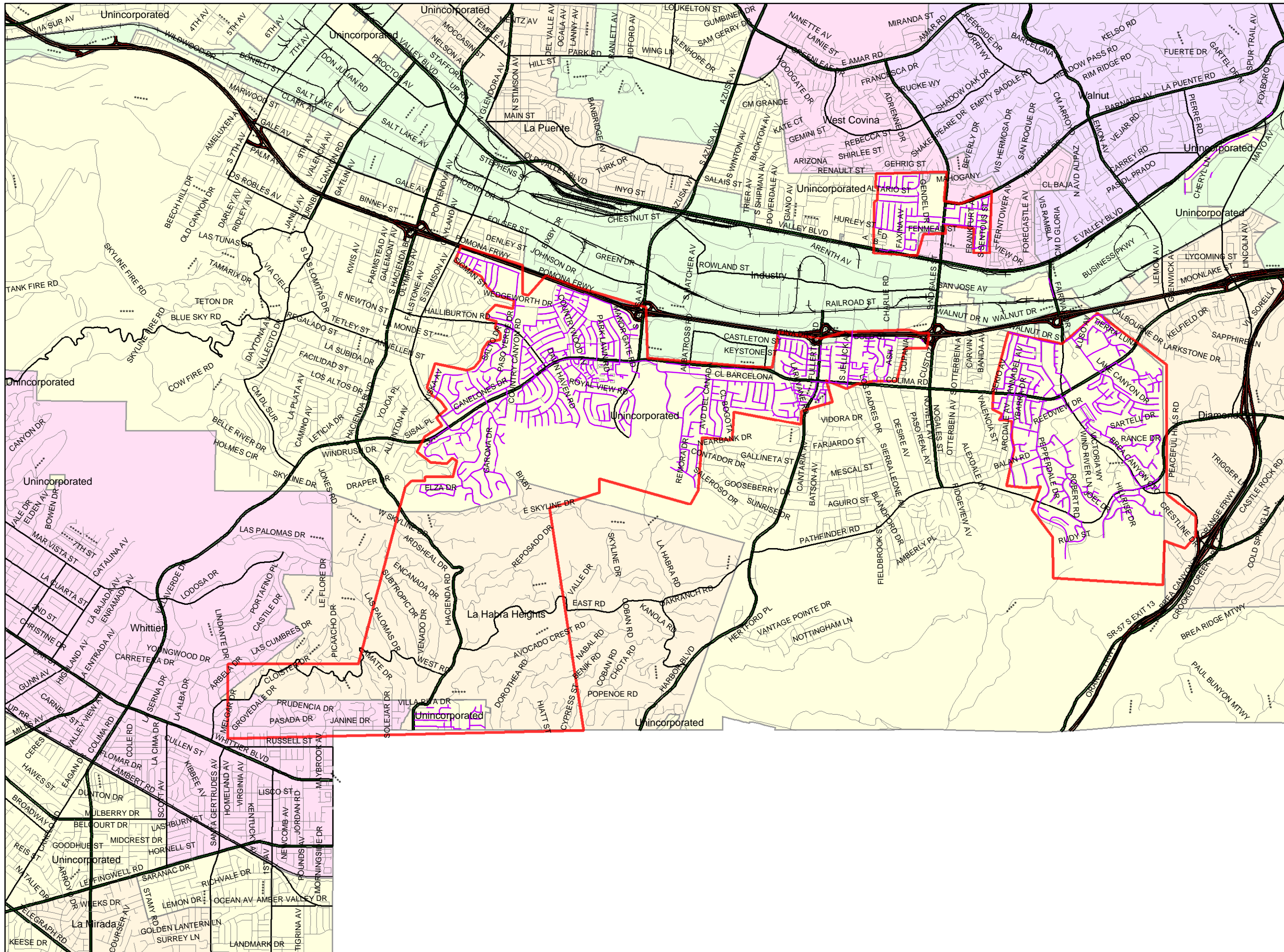
SMD Operations Maps

GEN_PROJID

Y0TV1011A

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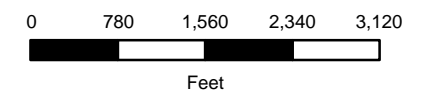
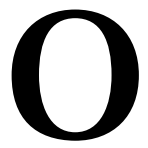
ENCLOSURE 2

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

ENCLOSURE 2
CCTV PROJECT
YOTV1011A

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING



Legend

- sewer lines**
JUR, S_QMR
- MINOR
 - MINOR TO MODERATE
 - MODERATE
 - SIGNIFICANT
 - MOST SIGNIFICANT

SMD Manholes

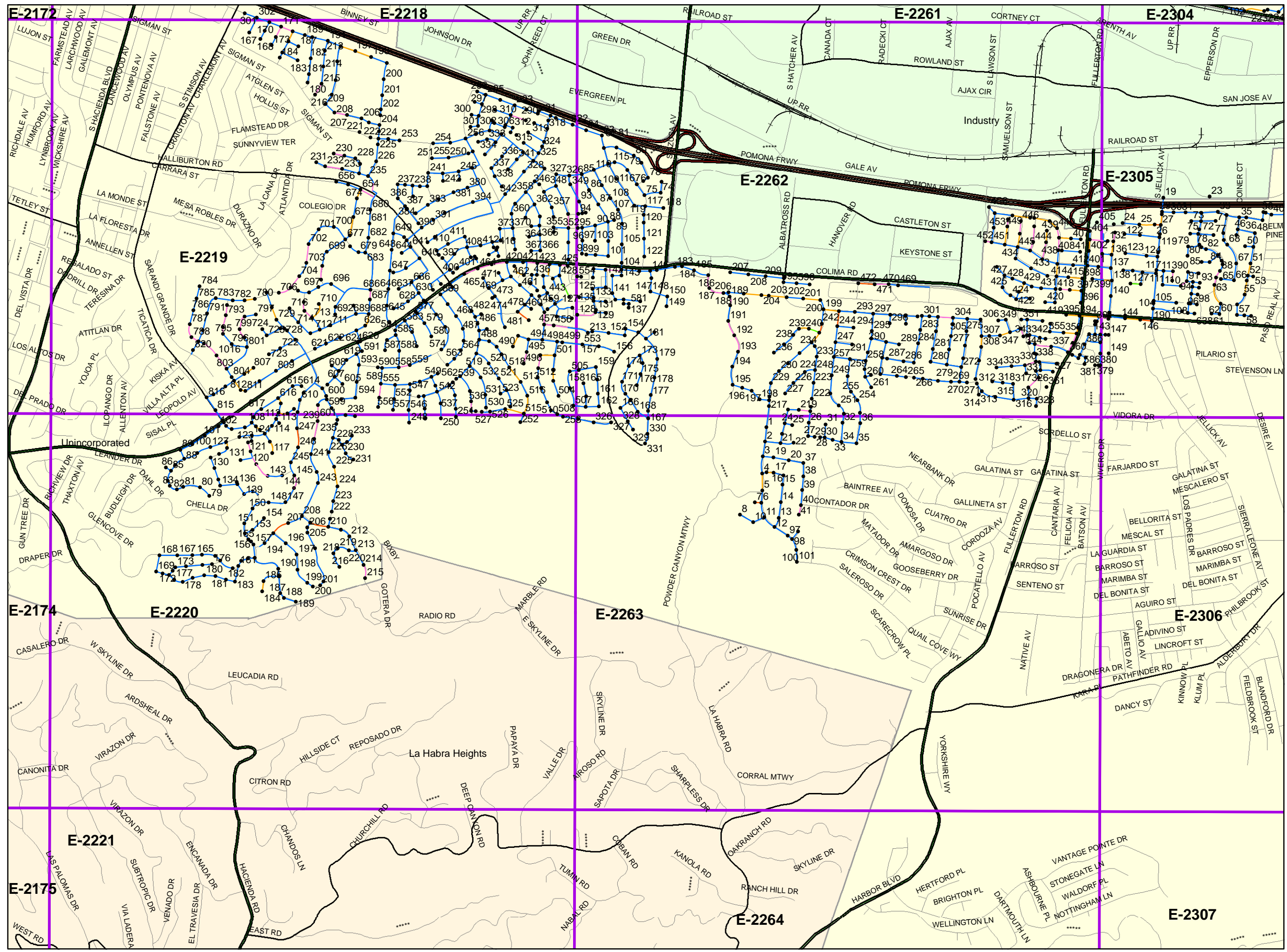
- U Other
- Manhole Type**
- (Standard
- * DROP
- Shallow
- W Trap
- ? Siphon
- I SMD Pump Stations
- 👤 SMD Treatment Plants

Maintained by Others:

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

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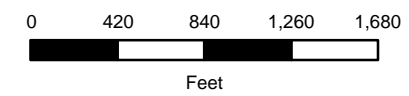
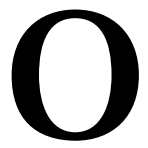
AUGUST 2018



ENCLOSURE 2
CCTV PROJECT
YOTV1011A

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING



Legend

- sewer lines**
JUR, S_QMR
- MINOR
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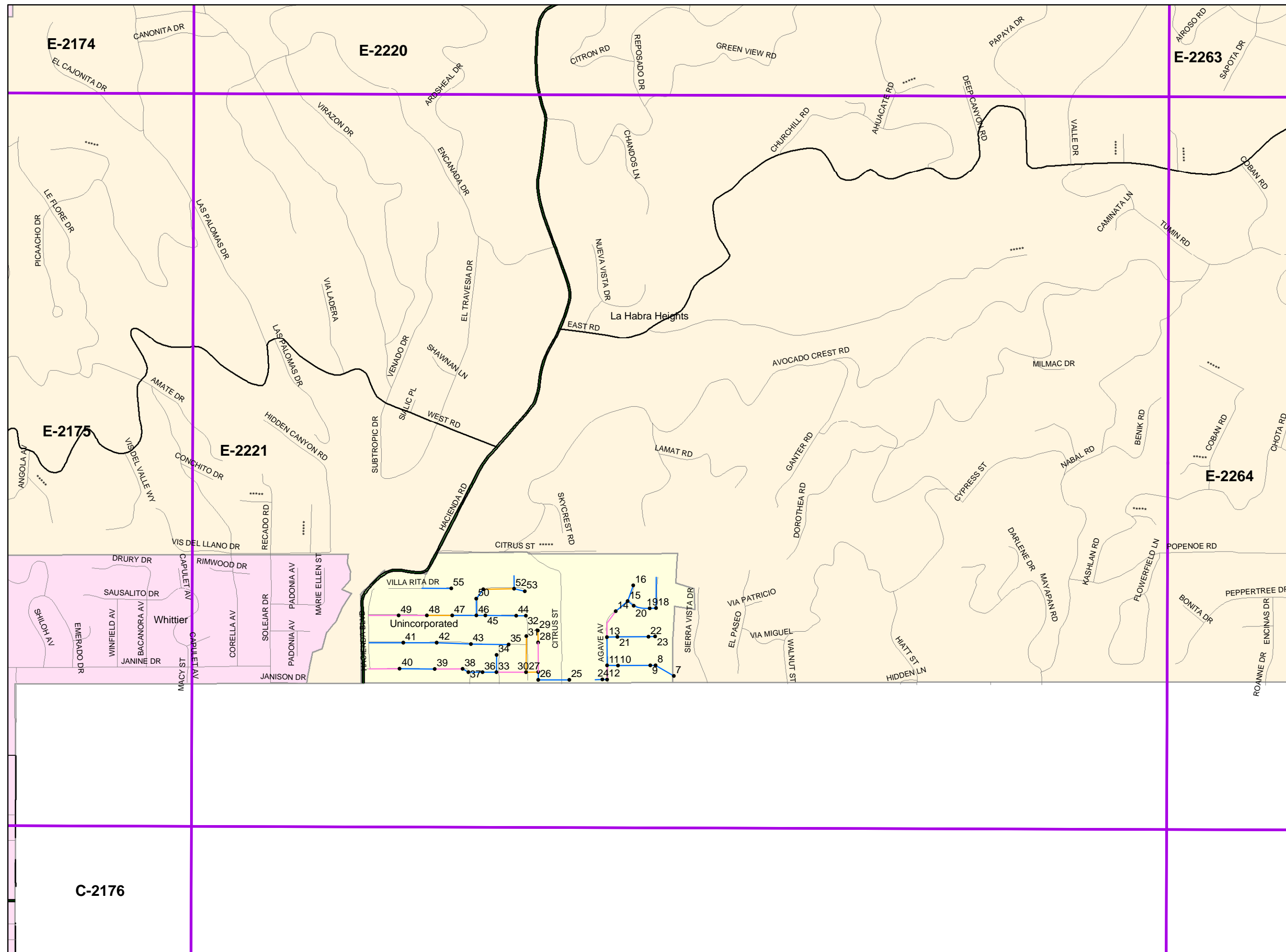
SMD Manholes

- U Other
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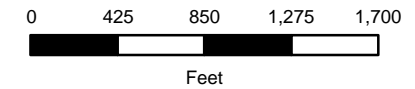
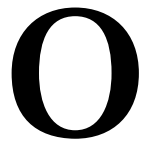
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ENCLOSURE 2
CCTV PROJECT
YOTV1011A

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING



Legend

sewer lines

JUR, S_QMR

- MINOR
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- MODERATE
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SMD Manholes

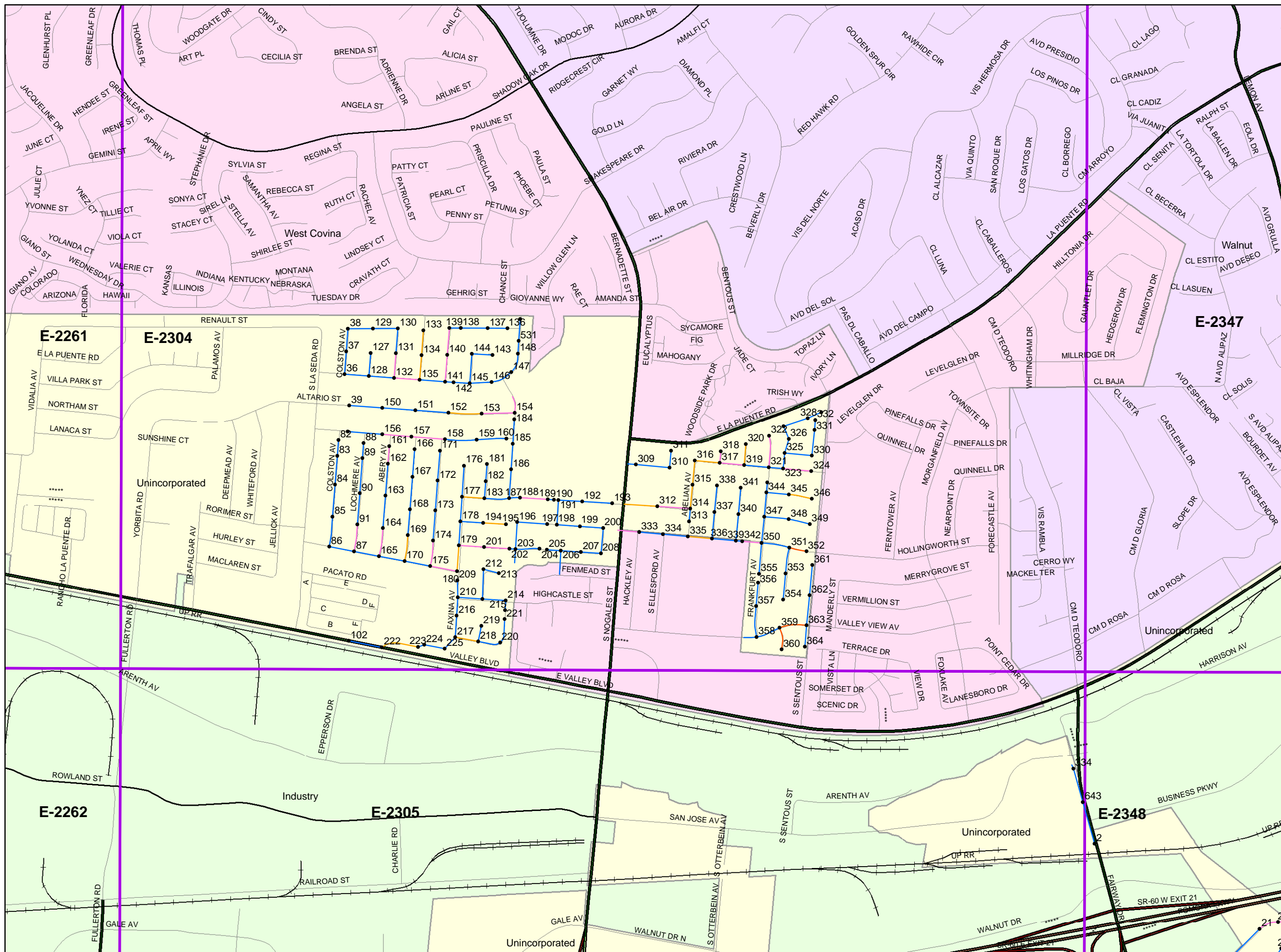
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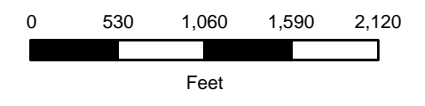
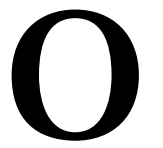
AUGUST 2018



ENCLOSURE 2
CCTV PROJECT
YOTV1011A

COUNTY
UNINCORPORATED

QUICK
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RATING



Legend

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SMD Manholes

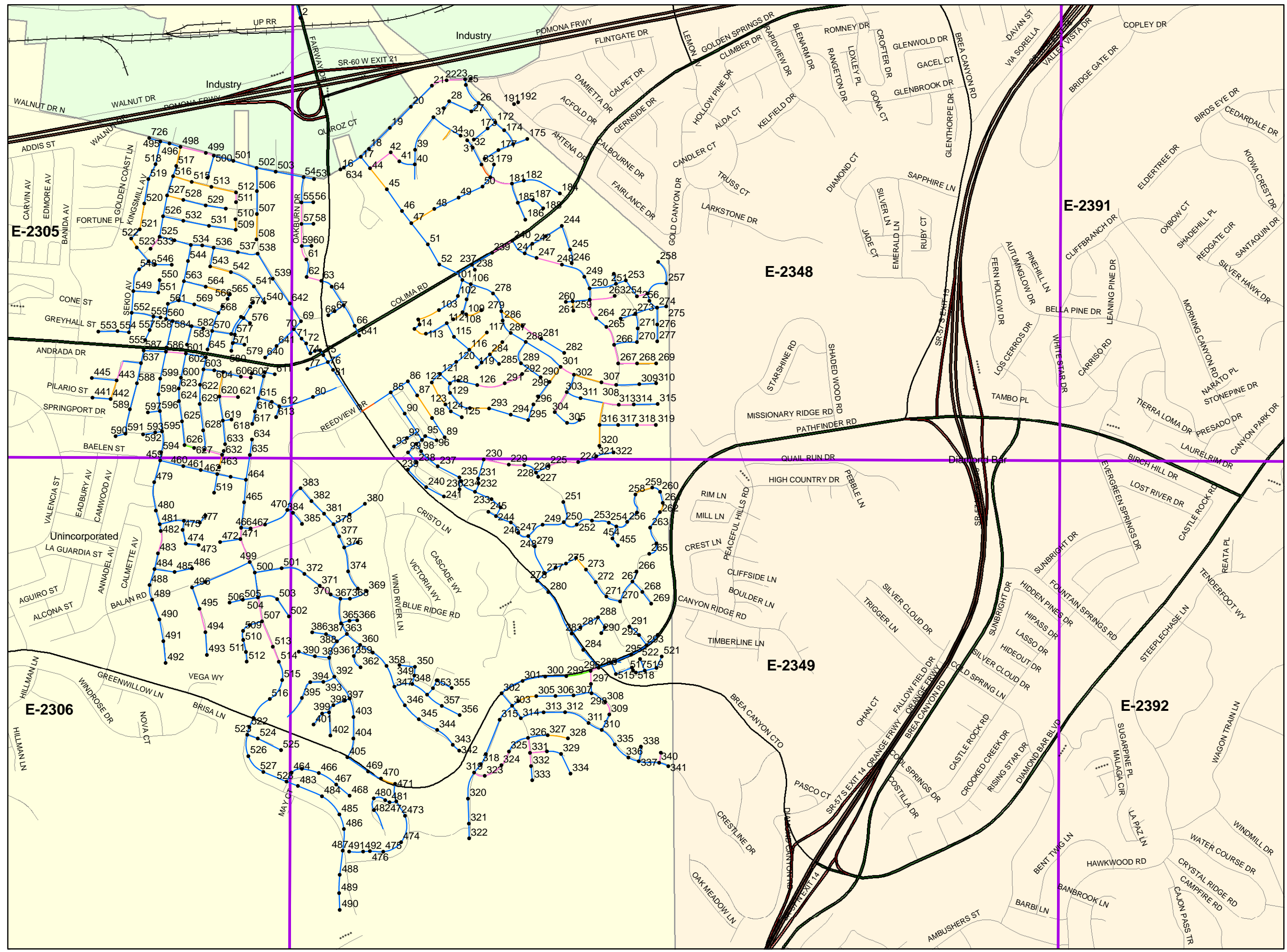
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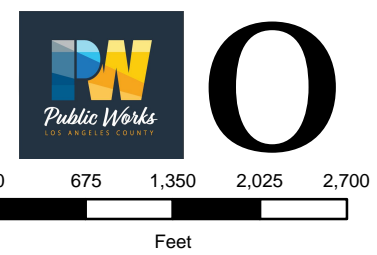
**ENCLOSURE 2
HIGH WATER LEVELS
COUNTY UNINCORPORATED EAST YARD (Y0TV1011A)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	4131	2304-0180	2304-0175	RORIMER ST	Sag	NO	Hydrojet
2	3122	2304-0223	2304-0222	EASEMENT	Sag	NO	Hydrojet
3	3123	2263-0005	2263-0004	SALEROSO DR	Sag	NO	Hydrojet
4	4131	2262-0219	2262-0220	MORRO DR	Sag	NO	Hydrojet
5	3121	2262-0243	2262-0199	CALLE BARCELONA	Sag	NO	Hydrojet
6	4332	2262-0470	2262-0471	EASEMENT	Sag	NO	Hydrojet
7	5231	2305-0146	2305-0190	COLIMA RD	Water Mark 50 %	YES	Hydrojet
8	512B	2220-0210	2220-0209	GOTERA DR	Sag	NO	Hydrojet
9	3121	2262-0203	2262-0204		Sag	NO	Hydrojet
10	3121	2262-0204	2262-0205		Sag	NO	Hydrojet

ENCLOSURE 2
CCTV PROJECT
YOTV1011A

COUNTY
UNINCORPORATED

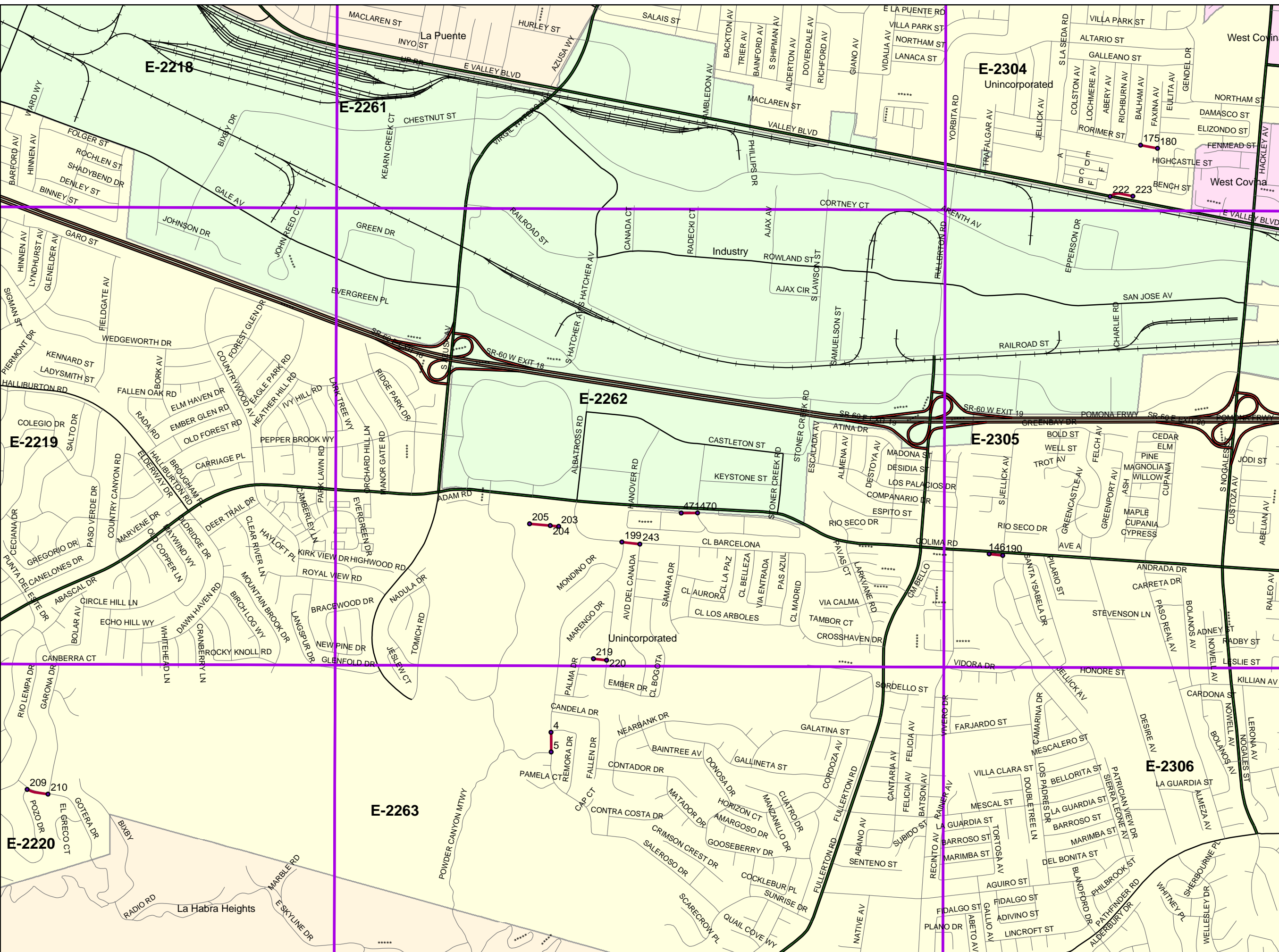
HIGH WATER
LEVEL



Legend

- HIGH WATER LEVEL
- SMD Manholes**
- U Other
- Manhole Type**
- (Standard
- * DROP
- Shallow
- W Trap
- ? Siphon
- I SMD Pump Stations
- SMD Treatment Plants
- Maintained by Others:**
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- GEN_PROJID**
- YOTV1011A

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ENCLOSURE 3

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

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
COUNTY UNINCORPORATED EAST YARD (Y0TV1011A)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	2219-0167	2218-0302	MATCHLEAF AV	Crack Multiple	No action needed*
2	2219-0172	2219-0171	EASTLEIGH AV	Broken	No action needed*
3	2219-0184	2219-0185	BARFORD AV	Fractures	Lining
4	2219-0187	2219-0186	BYCROFT ST	Fractures	No action needed*
5	2219-0246	2219-0247	FLOWER DR	Fractures, Hole	No action needed*
6	2219-0248	2219-0247	COUNTRYWOOD AV	Fractures	No action needed*
7	2219-0438	2219-0437	DOVERGLEN WY	Hole	No action needed*
8	2219-0488	2219-0487	DAWN HAVEN RD	Fractures	No action needed*
9	2219-0496	2219-0495	MARBLECREST DR	Fractures	No action needed*
10	2219-0548	2219-0549		Broken, Fractures	Point Repair
11	2219-0549	2219-0403	ECHO HILL WY	Fractures	No action needed*
12	2219-0563	2219-0564	OLDRIDGE DR	Fractures	No action needed*
13	2219-0569	2219-0467	COLIMA RD	Hole	No action needed*
14	2219-0653	2219-0652	HALLIBURTON RD	Fractures	No action needed*
15	2219-0800	2219-0801	FONTEZUELA DR	Broken	No action needed*
16	2219-0812	2219-0805	AMELGADO DR	Hole	Point Repair, Lining
17	2220-0089	2220-0088	SIERRA PEAK WY	Broken	Point Repair
18	2220-0109	2220-0108	SIERRA RIDGE WY	Hole	No action needed*
19	2220-0120	2220-0121		Broken	Point Repair, Lining
20	2220-0136	2220-0134		Fractures	No action needed*
21	2220-0139	2220-0136	CAPA DR	Fractures	No action needed*
22	2220-0143	2220-0144	MONTE CRISTO DR	Broken	No action needed*
23	2220-0224	2220-0225	GARONA DR	Fractures	No action needed*
24	2220-0240	2220-0239	RIO LEMPA DR	Broken	Lining
25	2262-0103	2262-0090	GAY PARK LN	Hole	No action needed*
26	2262-0147	2262-0146	PARKING LOT	Fractures	Point Repair, Lining
27	2262-0199	2262-0243	CALLE BARCELONA	Fractures/cracks	Point Repair
28	2262-0202	2262-0203		Pipe missing	No action needed*
29	2262-0205	2262-0206		Hole / pipe missing	Point Repair
30	2262-0259	2262-0258	SAMARA DR	Broken	No action needed*
31	2262-0346	2262-0345	VIA AMOROSA	Offset	No action needed*
32	2262-0347	2262-0346	VIA AMOROSA	Fractures	Point Repair, Lining
33	2262-0416	2262-0397	ESPITO ST	Cracks	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.

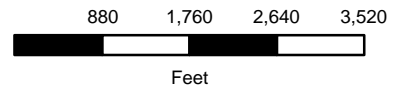
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
COUNTY UNINCORPORATED EAST YARD (Y0TV1011A)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
34	2262-0431	2262-0418	ESPITO ST	Holes	No action needed*
35	2262-0442	2262-0441	ATINA DR	Crackss	No action needed*
36	2263-0006	2263-0005	SALEROSO DR	Deformed	No action needed*
37	2263-0018	2263-0004	VERNA DR	Deformed	No action needed*
38	2304-0140	2304-0141	BALHAM AV	Fracture	No action needed*
39	2304-0169	2304-0170	RICHBURN AV	Cracks	No action needed*
40	2304-0314	2304-0313	ABELIAN AV	Fractures	No action needed*
41	2305-0029	2305-0019	EASEMENT	Fractures	No action needed*
42	2305-0079	2305-0078	TROT AV	Hole/fractures	Point Repair, Lining
43	2305-0079	2305-0080	TROT AV	Hole	Point Repair, Lining
44	2305-0121	2305-0122	SANTAR ST	Hole/broken	Point Repair, Lining
45	2305-0134	2262-0403	MADONA ST	Cracks	Lining
46	2305-0555	2305-0552	SEKIO AV	Fractures	No action needed*
47	2305-0558	2305-0552	BLUFFWOOD ST	Fracture	No action needed*
48	2305-0571	2305-0577	BLUEHAVEN DR	Fractures	No action needed*
49	2305-0585	2305-0584	ANNADEL AV	Pipe missing (repair patch)	No action needed*
50	2348-0041	2348-0042	TARTA CT	Joint offset	No action needed*
51	2348-0093	2348-0092	LATIUM WY	Broken	No action needed*
52	2348-0101	2348-0102	EASEMENT	Fractures	No action needed*
53	2349-0274	2349-0275		Broken	Point Repair
54	2349-0275	2349-0276		Broken	Lining
55	2349-0280	2349-0278	BREA CYN CUTOFF RD	Cracks	Lining
56	2349-0369	2349-0368	CASTLEBAR DR	Broken	No action needed*
57	2349-0384	2349-0385	GENE CT	Deformed	No action needed*
58	2349-0397	2349-0396	PAMELA LN	Broken	Point Repair, Lining

*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.

COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING



Legend

sewer lines

JUR, S_QSR

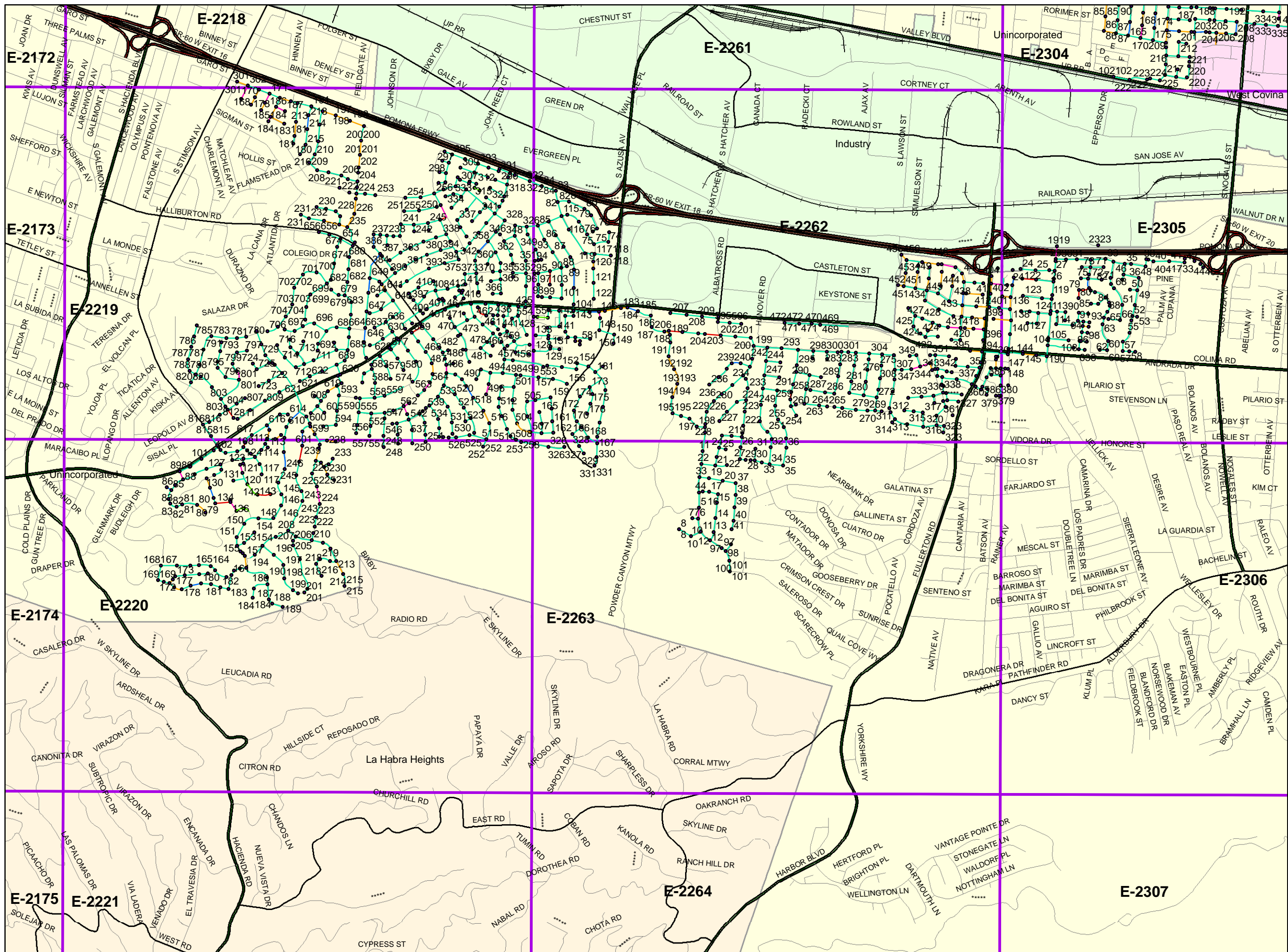
- MINOR
- MINOR TO MODERATE
- MODERATE
- SIGNIFICANT;
- MOST SIGNIFICANT

SMD Manholes

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

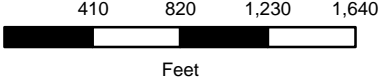
Maintained by Others:

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



COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING



Legend

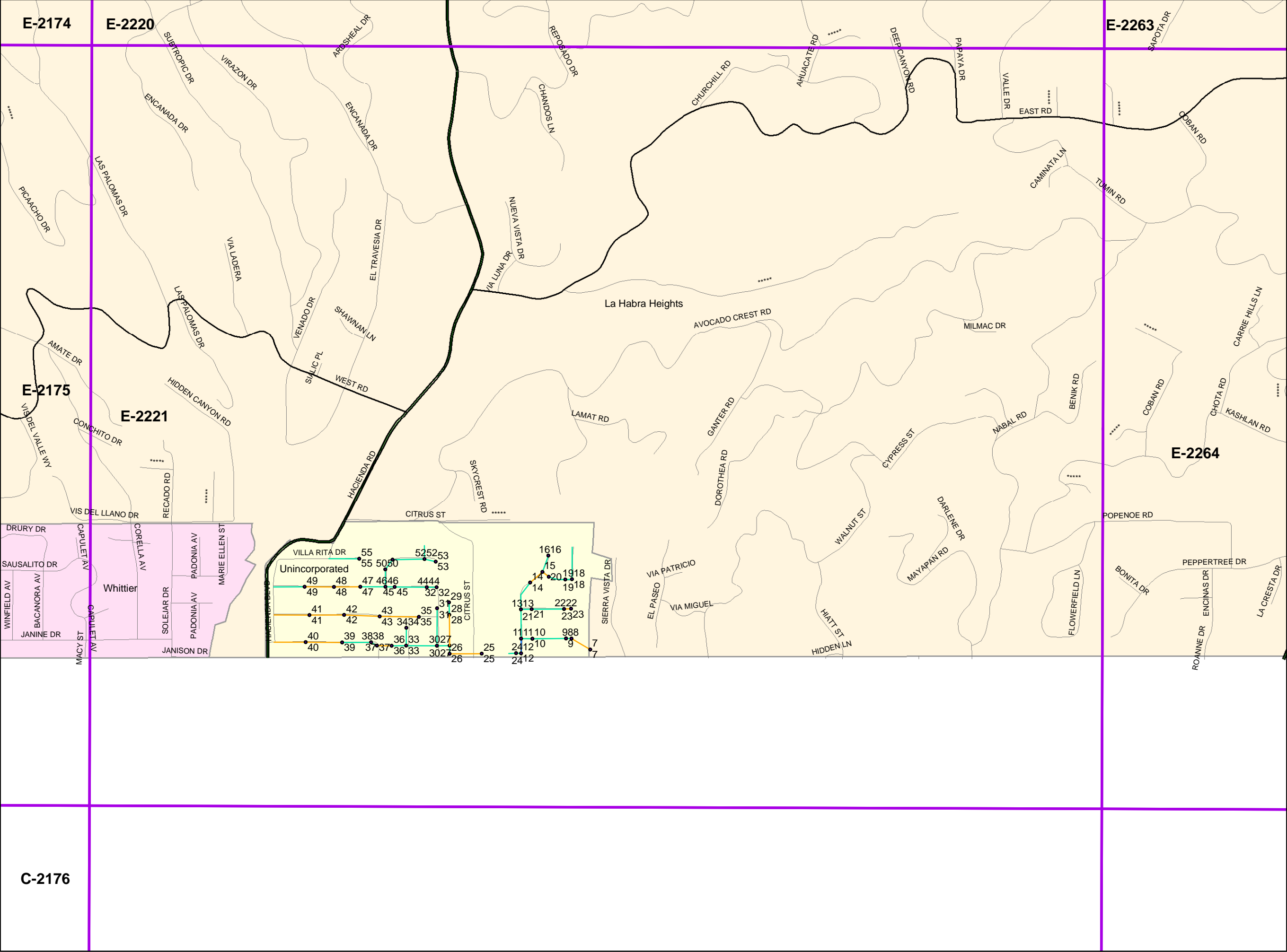
- sewer lines**
- JUR, S_QSR**
- MINOR
- MINOR TO MODERATE
- MODERATE
- SIGNIFICANT;
- MOST SIGNIFICANT

SMD Manholes

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

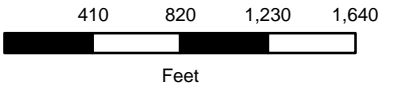
Maintained by Others:

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



COUNTY UNINCORPORATED

QUICK STRUCTURAL RATING



Legend

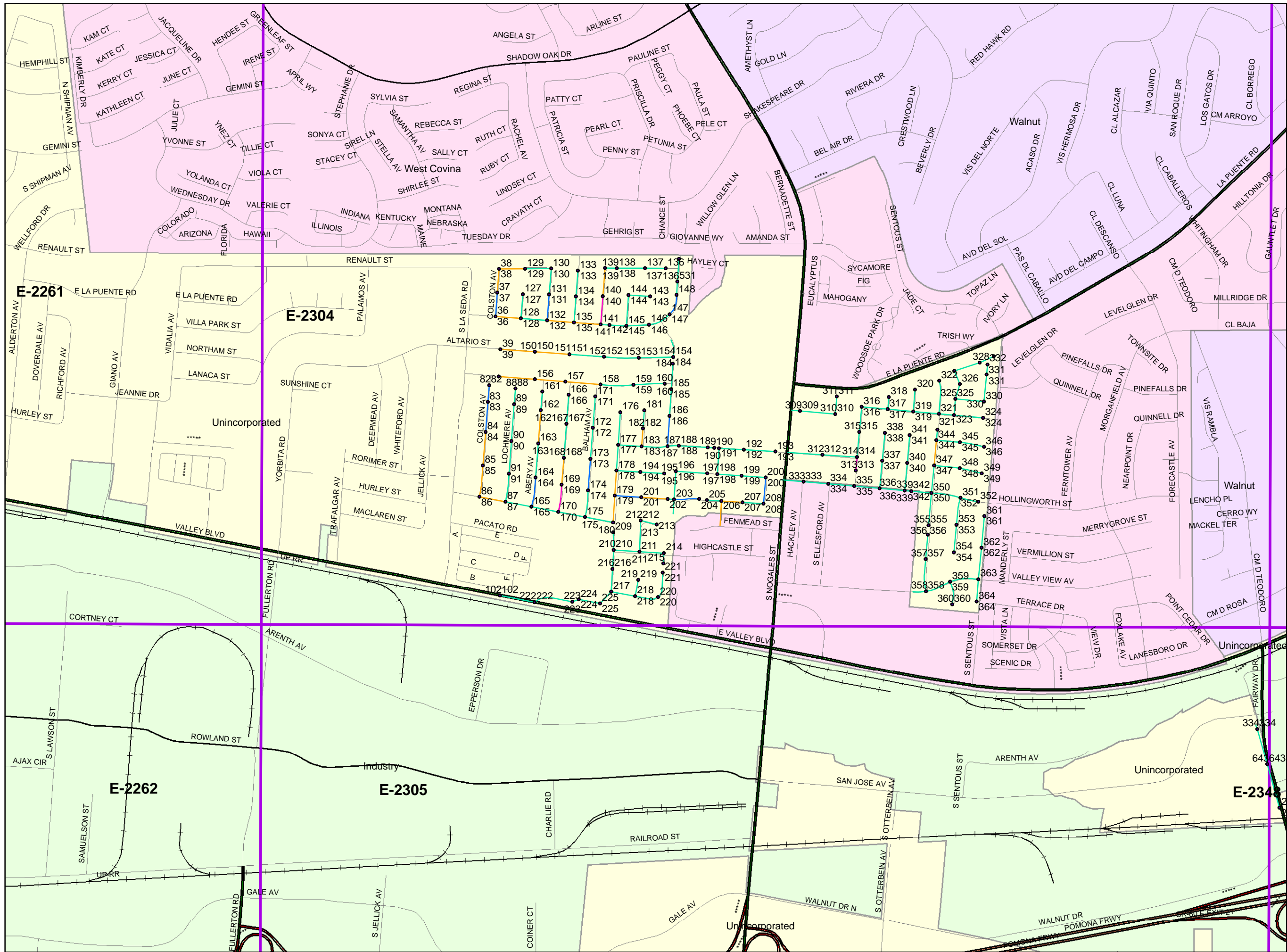
- sewer lines**
- JUR, S_QSR**
- MINOR
- MINOR TO MODERATE
- MODERATE
- SIGNIFICANT;
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SMD Manholes

- U Other
- Manhole Type**
- (Standard
- * DROP
- Shallow
- W Trap
- ? Siphon
- I SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

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



E-2261

E-2304

E-2262

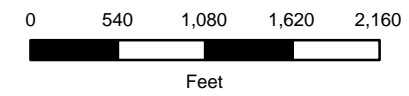
E-2305

E-2348

ENCLOSURE 3
CCTV PROJECT
YOTV1011A

COUNTY
UNINCORPORATED

QUICK
STRUCTURAL
RATING



Legend

- sewer lines**
JUR, S_QSR
- MINOR
 - MINOR TO MODERATE
 - MODERATE
 - SIGNIFICANT;
 - MOST SIGNIFICANT

- SMD Manholes**
- U Other
- Manhole Type**
- (Standard
 - * DROP
 - Shallow
 - W Trap
 - ? Siphon
 - I SMD Pump Stations
 - 🗿 SMD Treatment Plants

- Maintained by Others:**
- Trunk Sewerlines
 - - - Non SMD Sanitary Sewers
 - (Non SMD Maintained MH
 - SMD Operations Maps

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AUGUST 2018

