

May 28, 2009

TO Nicholas Agbobu  
Engineering, Budget, and Office Operations

FROM: Robert Swartz  
Field Operations

**CONSOLIDATED SEWER MAINTENANCE DISTRICT  
CONDITION ASSESSMENT PROGRAM REPORT  
PROJECT Y0TV0708F**

This memo 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 195,437 feet or approximately 5.4 percent of the sewer system within Unincorporated County maintained by the District's East Yard

The attached 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)
- CCTV Sewer Inspection Project Schedule (Enclosure 5)

The Condition Assessment Report will provide details regarding the maintenance and structural condition of our sewer mainlines. This information can be included in our 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 for continued monitoring. 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.

HK



Attach.

bc: RS, FV, File (Y0TV0708F)

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

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PROJECT NAME:	Y0TV0708F	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	10/22/07-12/24/07	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	5	MAP PAGE(S):	2343,2301,2300,2299,2342,2256 2257,2344
Report By:	Hanna Kebede	Report Date:	04/30/2009

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**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 195,437 feet or approximately 5.4 percent of the Unincorporated Los Angeles County sewer system maintained by the District's East Yard.

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 Y0TV0708F included sewer lines located in the Unincorporated County of Los Angeles area and the City of Glendora. Enclosed for your reference is an overview map of the project area (Enclosure 1).

**DEFECT GRADE DESCRIPTION**

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

Grade	Description	Estimate time to Failure
<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: Sever 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 94.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 5.8 percent of the inspected pipe segments within the Unincorporated Los Angeles County 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	2,257	1.2	10
2: Good	172,114	88.0	727
3: Fair	9,895	5.0	41
4: Poor	10,680	5.5	38
5: Immediate Attention	491	0.3	2
TOTAL	195,437	100.0	818

## STRUCTURAL REPORT

Our inspection revealed that approximately 96.2 percent of the inspected pipe segments within the Unincorporated Los Angeles County were free of severe structural defects. However, the remaining 3.8 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 30 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 reports for these thirty segments are included in Enclosure 4.

### QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	147,760	75.6	630
2: Good	14,251	7.3	57
3: Fair	26,008	13.3	101
4: Poor	7,294	3.7	29
5: Immediate Attention	124	0.1	1
TOTAL	195,437	100.0	818

## **FUTURE PROJECTS**

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the Unincorporated Los Angeles County maintained by the East Yard. For your reference, the CCTV Sewer Inspection project schedule is listed in Enclosure 5.

ENCLOSURE 1:

Project Overview Map

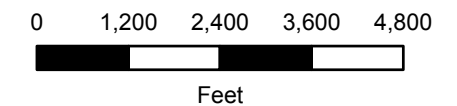


# ENCLOSURE 1

CCTV PROJECT  
**YOTV0708F**

Supervisorial District 5  
Unincorporated County

## PROJECT OVERVIEW



### Legend

#### SMD Sanitary Sewers

SMD Sanitary Sewers

#### SMD Manholes

Other

#### MH Type

Standard

Siphon

Trap

Shallow

Drop

SMD Pump Stations

SMD Treatment Plants

#### Maintained by Others:

Trunk Sewerlines

Non SMD Sanitary Sewers

Trunk Mh

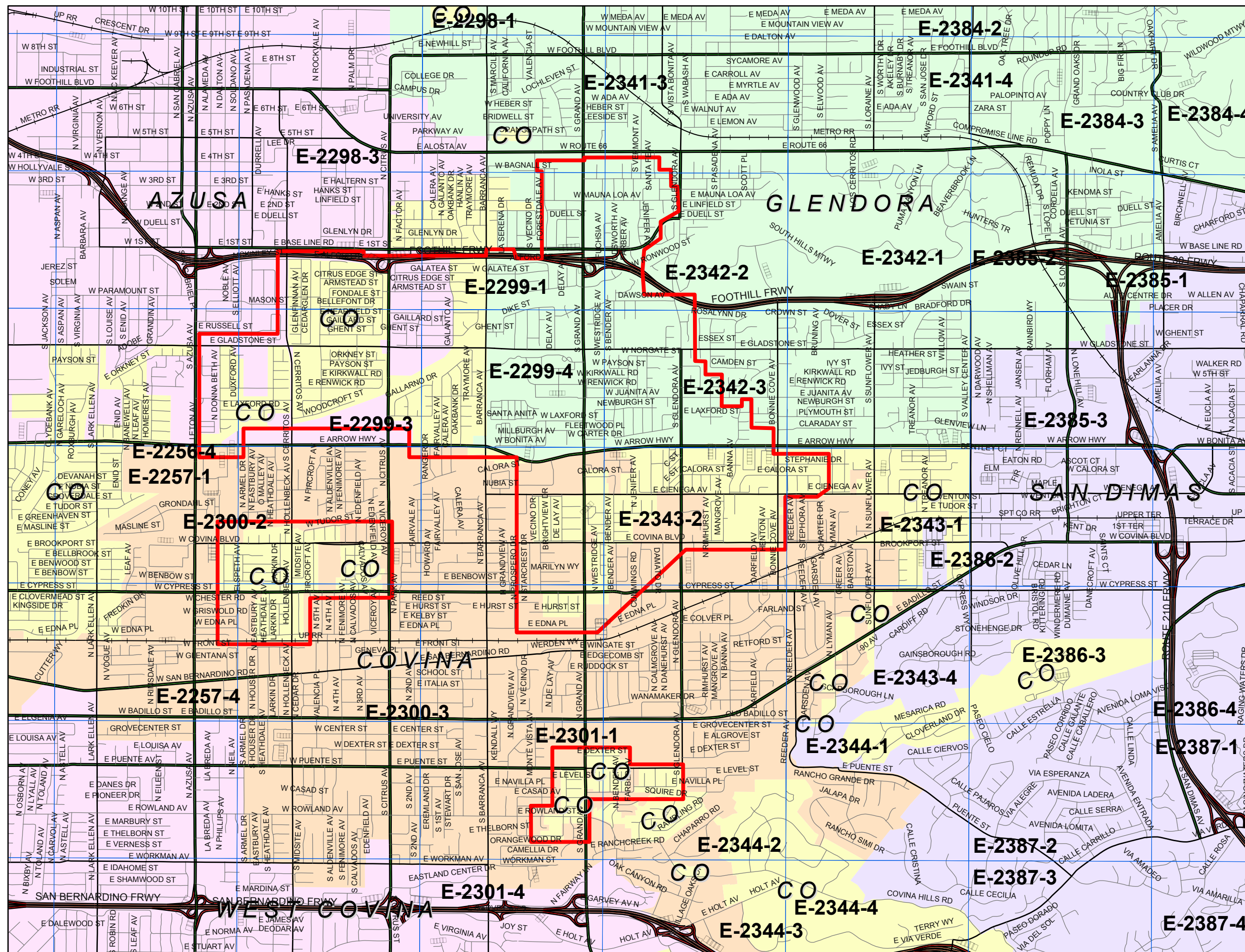
Non SMD Maintained MH

SMD Operations Maps

YOTV0708F

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## ENCLOSURE 2:

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

**ENCLOSURE 2**  
**QUICK MAINTENANCE REPORT PRIORITY LIST**  
**UNINCORPORATED LOS ANGELES COUNTY (Y0TV0708F)**  
**as of 12/24/07**

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5121	2300-0101	2300-CITY	EDNA PL	Roots	Rodder (completed: 12/04/08)
2	5121	2343-0076	2343-0077	IVESCREST AV	Roots	Rodder (completed: 12/23/08)
3	4H21	2257-0432	2257-0433	COVINA BV	Roots	Rodder (completed: 10/07/08)
4	412B	2299-0008	2299-0009	GLENFINNAN AV	Roots; grease	Rodder (completed: 04/07/09)
5	4721	2300-0008	2257-0433	COVINA BV	Roots	Rodder (completed: 10/07/08)
6	4621	2299-0149	2299-0150	ARMSTEAD ST	Root ball	Rodder (completed: 04/08/09)
7	4421	2257-0434	2257-0436	CONWELL AV	Roots	Rodder (completed: 10/07/08)
8	4333	2299-0220	2299-0221	GALLARNO DR	Roots	Rodder (completed: 01/30/09)
9	4321	2300-0017	2257-0435	BROOKPORT ST	Roots	Rodder (completed: 10/07/08)
10	4321	2299-0148	2299-0149	ARMSTEAD ST	Root ball	Rodder (completed: 04/07/09)
11	4231	2300-0170	2300-0171	COVINA BV	Grease	Rodder (completed: 03/12/09)
12	4222	2299-0180	2299-0181	GLADSTONE ST	Roots	Rodder (completed: 04/08/09)
13	4221	2300-0053	2300-0054	CLOVERMEAD ST	Roots	Rodder (completed: 10/21/08)
14	4221	2300-0113	2300-0136	DRIVEWAY	Roots	Rodder (completed: 10/21/08)
15	4221	2256-0126	2299-0091	WOODCROFT ST	Roots	Rodder (completed: 04/08/09)
16	4131	2299-0221	2299-0222	GALLARNO DR	Roots	Rodder (completed: 04/07/09)
17	4131	2299-0381	2299-0402	RANGER DR	Root ball	Rodder (completed: 04/07/09)
18	4122	2299-0330	2299-0331	ALFORD ST	Roots	Rodder (completed: 12/22/08)
19	4121	2300-0070	2300-0085	MIDSITE AV	Roots	Rodder: periodic (last cleaned: 11/13/08)
20	4121	2300-0083	2300-0084	MIDSITE AV	Roots	Rodder: periodic (last cleaned: 11/13/08)
21	4121	2300-0084	2300-0085	MIDSITE AV	Roots	Rodder: periodic (last cleaned: 11/13/08)
22	4121	2300-0128	2300-0129	BENBOW ST	Roots	Rodder (completed: 10/01/08)
23	4121	2300-0001	2300-0008	ARMEL DR	Roots	Rodder (completed: 10/07/08)
24	4121	2300-0022	2300-0023	BELLBROOK ST	Roots	Rodder (completed: 10/21/08)
25	4121	2301-0014	2301-0015	CASAD AV	Roots	Rodder (completed: 10/30/08)
26	4121	2301-0017	2301-0018	NAVILLA PL	Roots	Rodder (completed: 12/04/08)
27	4121	2301-0018	2301-0019	NAVILLA PL	Roots	Rodder (completed: 10/30/08)
28	4121	2300-0081	2300-0082	HOLLENBECK AV	Roots	Rodder (completed: 10/30/08)
29	4121	2299-0001	2299-0002	ALFORD ST	Roots	Rodder (completed: 12/02/08)
30	4121	2299-0166	2299-0167	NEARFIELD ST	Root ball	Rodder (completed: 04/8/09)
31	4121	2299-0020	2299-0021	ORANGECREST AV	Roots	Rodder (completed: 04/8/09)
32	4121	2299-0021	2299-0138	GALATEA ST	Roots	Hydrojet (completed: 12/15/08)



Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
33	4121	2299-0045	2299-0147	ARMSTEAD ST	Roots	Rodder (completed: 04/07/09)
34	4121	2299-0214	2299-0215	RENEWICK RD	Roots	Rodder (completed: 04/08/09)
35	4121	2299-0335	2299-0336	GALATEA ST	Roots	Rodder (completed: 12/22/08)
36	4121	2299-0424	2299-0425	CALERA AV	Roots	Rodder (completed: 04/07/09)

The following line segments received a Quick Maintenance Rating of above 4000 due to the observation of Root Ball or Deposit 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 No.	QMR	Start MH	End MH	Street	Observation
1	4131	2299-0221	2299-0222	GALLARNO DR	Root ball in lateral connection
2	4121	2299-0327	2299-0328	ALFORD ST	Root ball in lateral connection
3	4121	2299-0327	2299-0328	ALFORD ST	Root ball in lateral connection
4	4121	2299-0437	2299-0438	WEATHER RD	Root ball in lateral connection

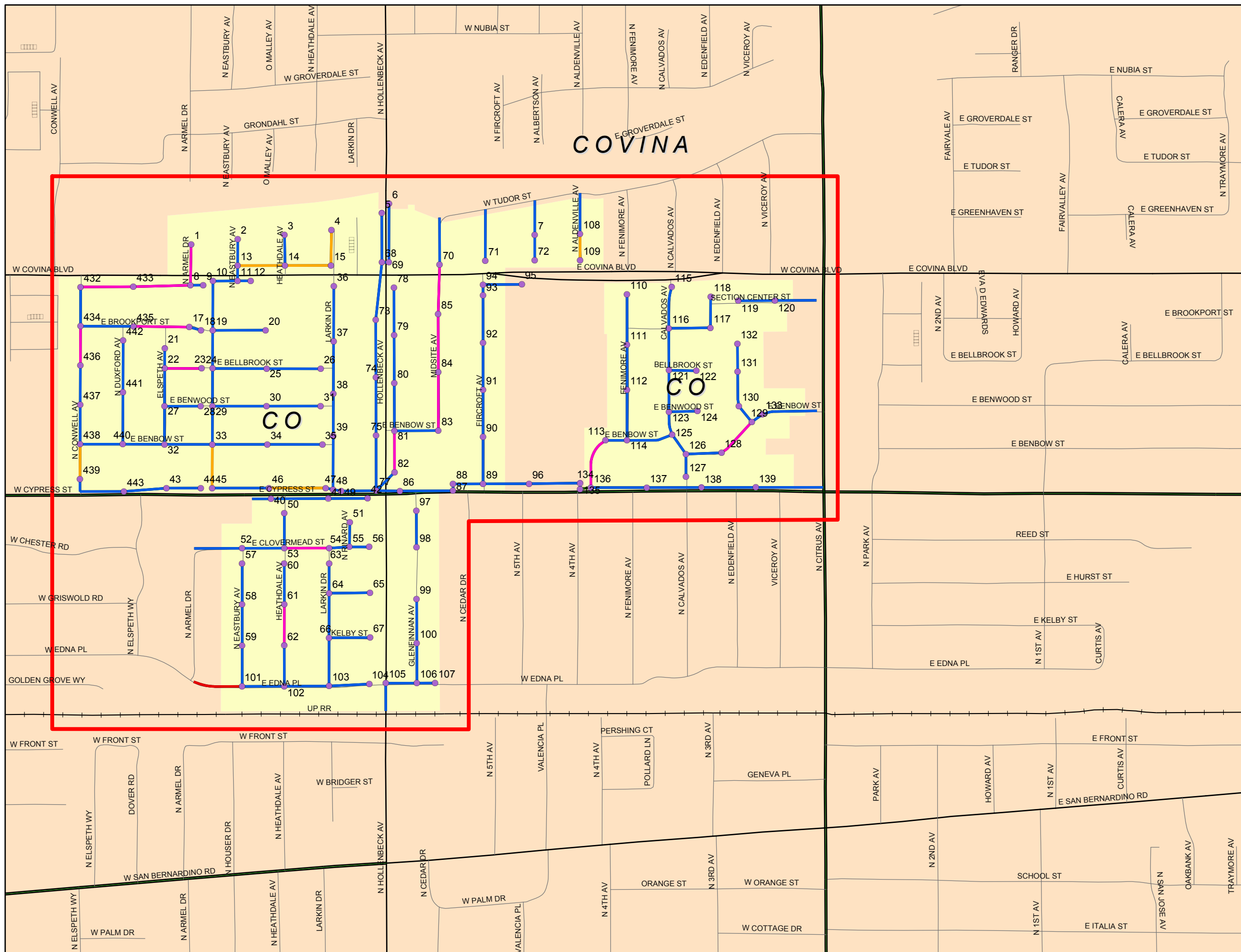
# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### 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
- YOTV0708F

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# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

**QUICK  
MAINTENANCE  
RATING  
(QMR)**



### Legend

#### SMD sanitary Sewers

##### QMR

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

#### SMD Manholes

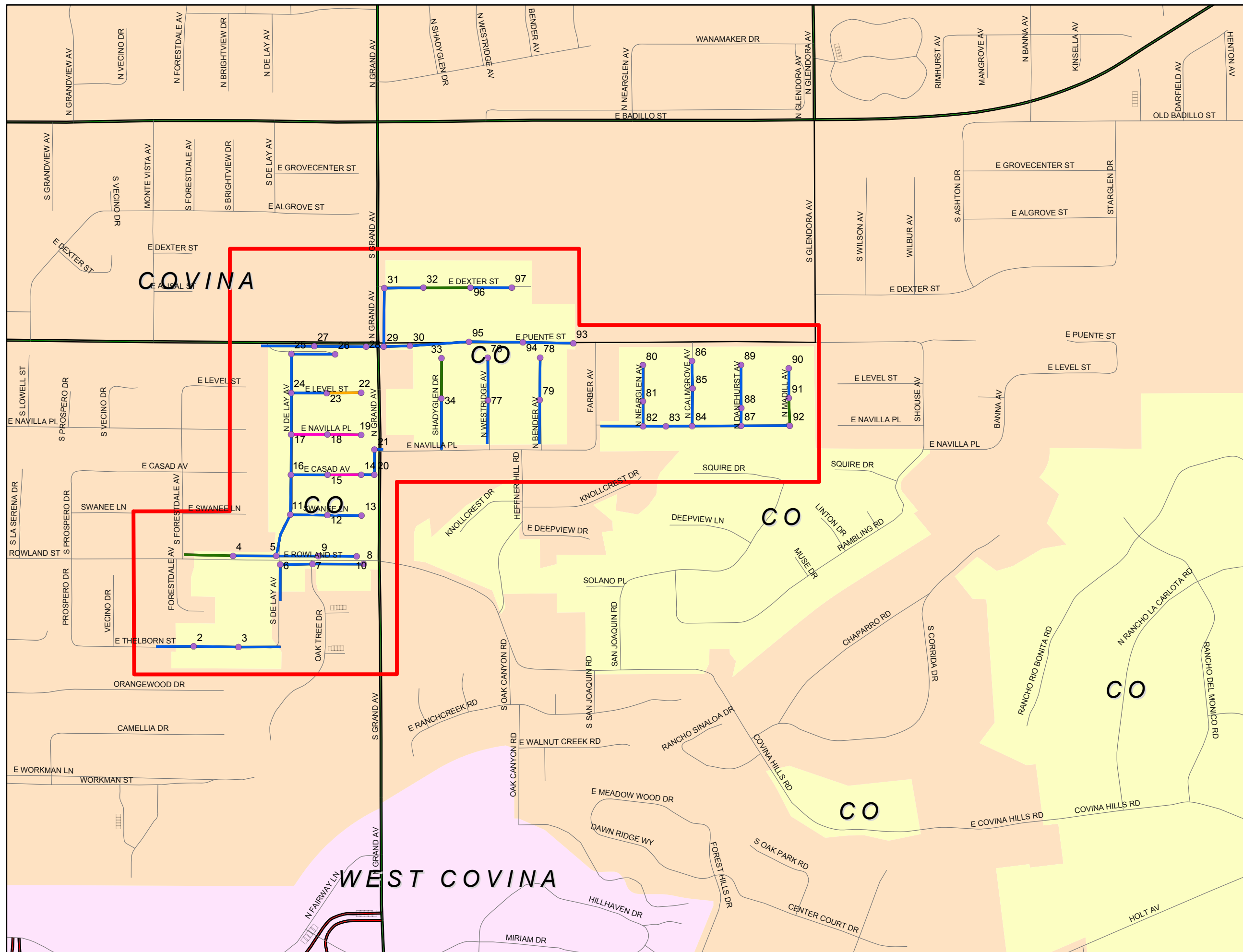
- Other (Circle with dot)
- Standard (Purple circle)
- DROP (Purple triangle)
- Shallow (Purple square)
- Trap (Purple diamond)
- Siphon (Purple circle with cross)
- SMD Pump Satations (Red square with 'P')

#### Maintained by Others:

- Trunk Sewerlines (Thick blue line)
- SMD Treatment Plants (Black box with 'WTP')
- Non SMD Sanitary Sewers (Dashed green line)
- Trunk Mh (Blue circle)
- Non SMD Maintained MH (Green circle)
- SMD Operations Maps (Blue outline)
- YOTV0708F (Red outline)

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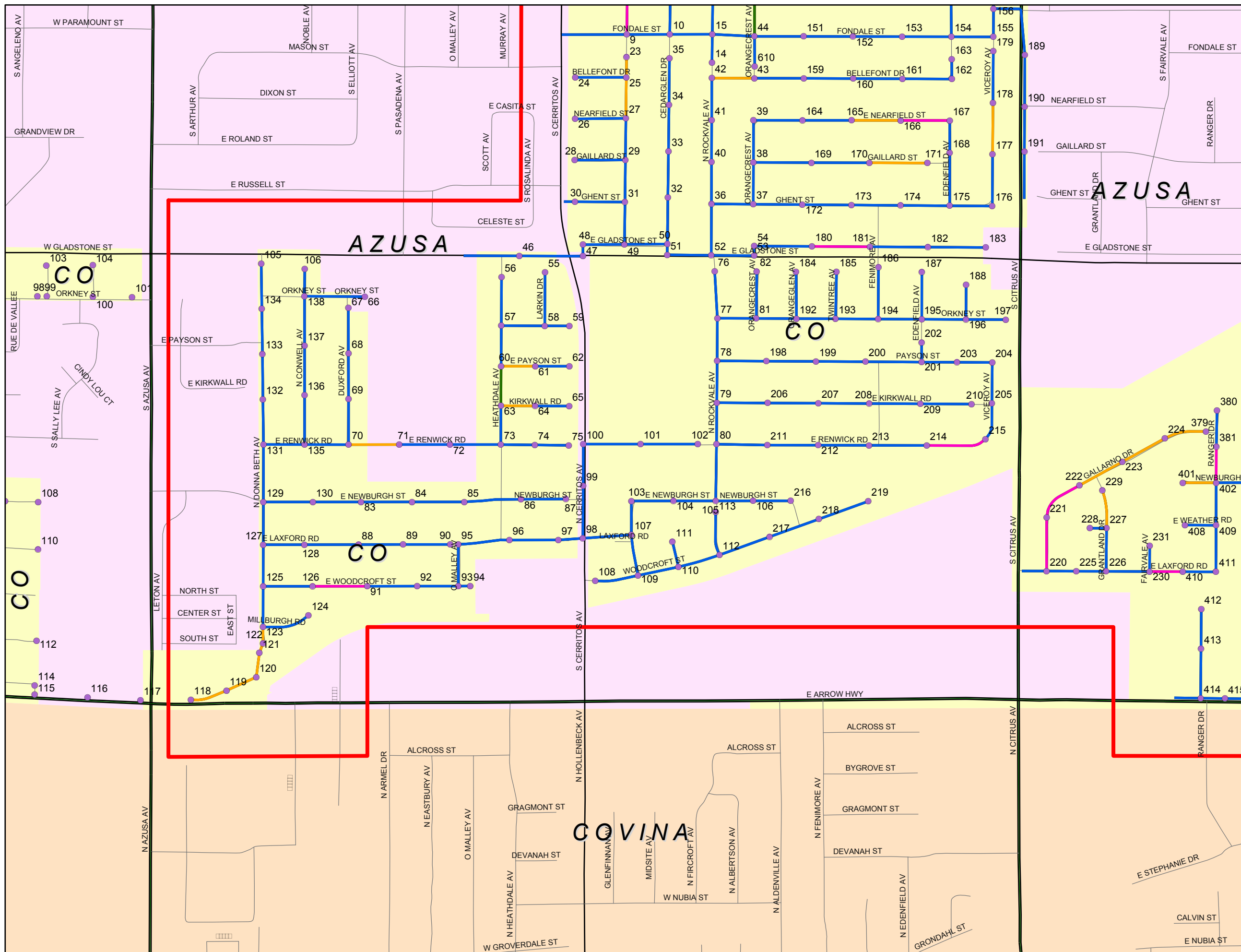
# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD sanitary Sewers

- \_QMR**
- 1: EXCELLENT
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  - 5: IMMEDIATE ATTENTION

#### SMD Manholes

- Other
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- SMD Pump Satations

#### Maintained by Others:

- Trunk Sewerlines
- WTP SMD Treatment Plants
- - - Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- YOTV0708F

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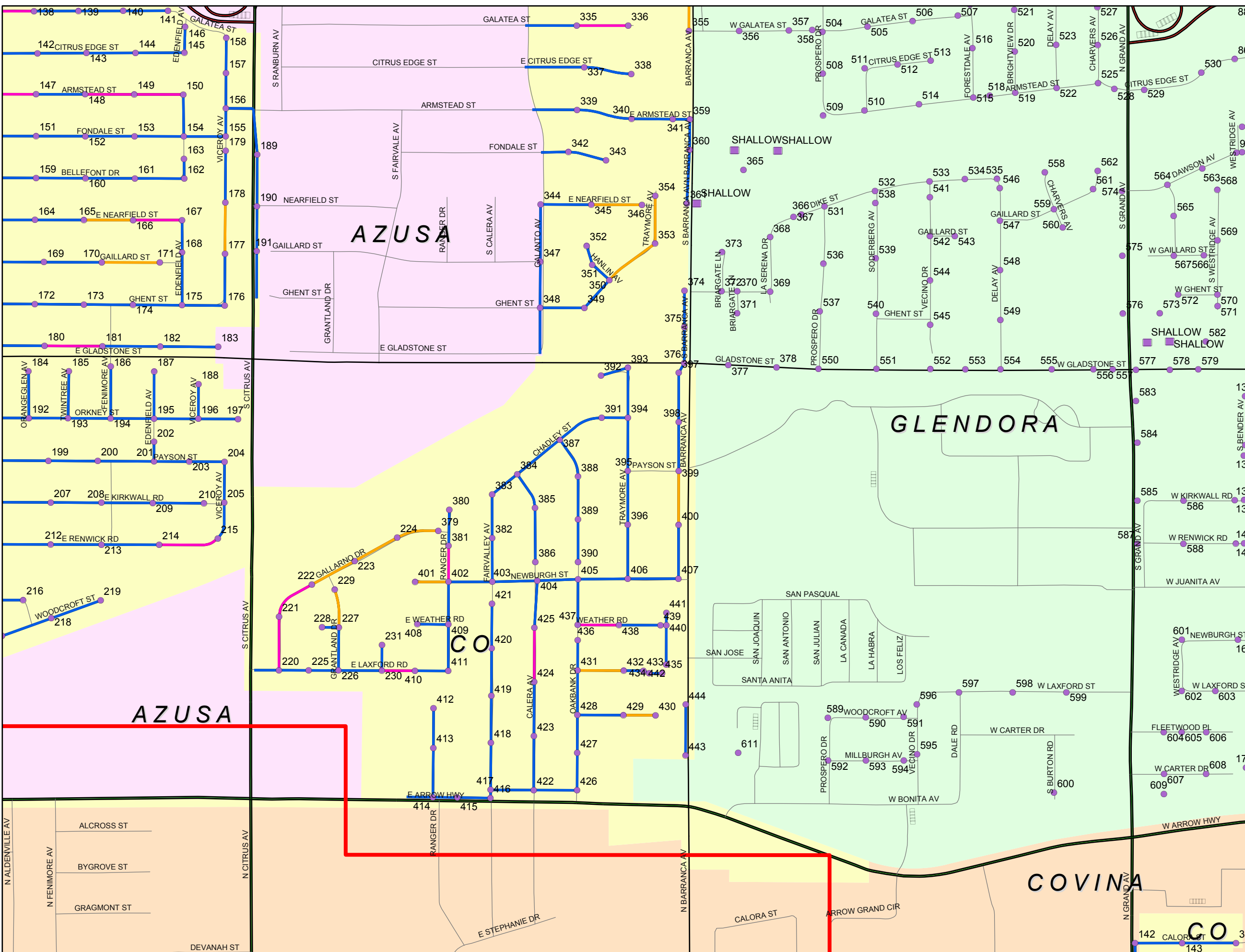
# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK MAINTENANCE RATING (QMR)



### Legend

- SMD sanitary Sewers**
- QMR**
  - 1: EXCELLENT (Green line)
  - 2: GOOD (Blue line)
  - 3: FAIR (Yellow line)
  - 4: POOR (Magenta 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 box)
  - Non SMD Sanitary Sewers (Dashed green line)
  - Trunk Mh (Blue circle)
  - Non SMD Maintained MH (Green circle)
  - SMD Operations Maps (Blue outline)
  - YOTV0708F (Red outline)

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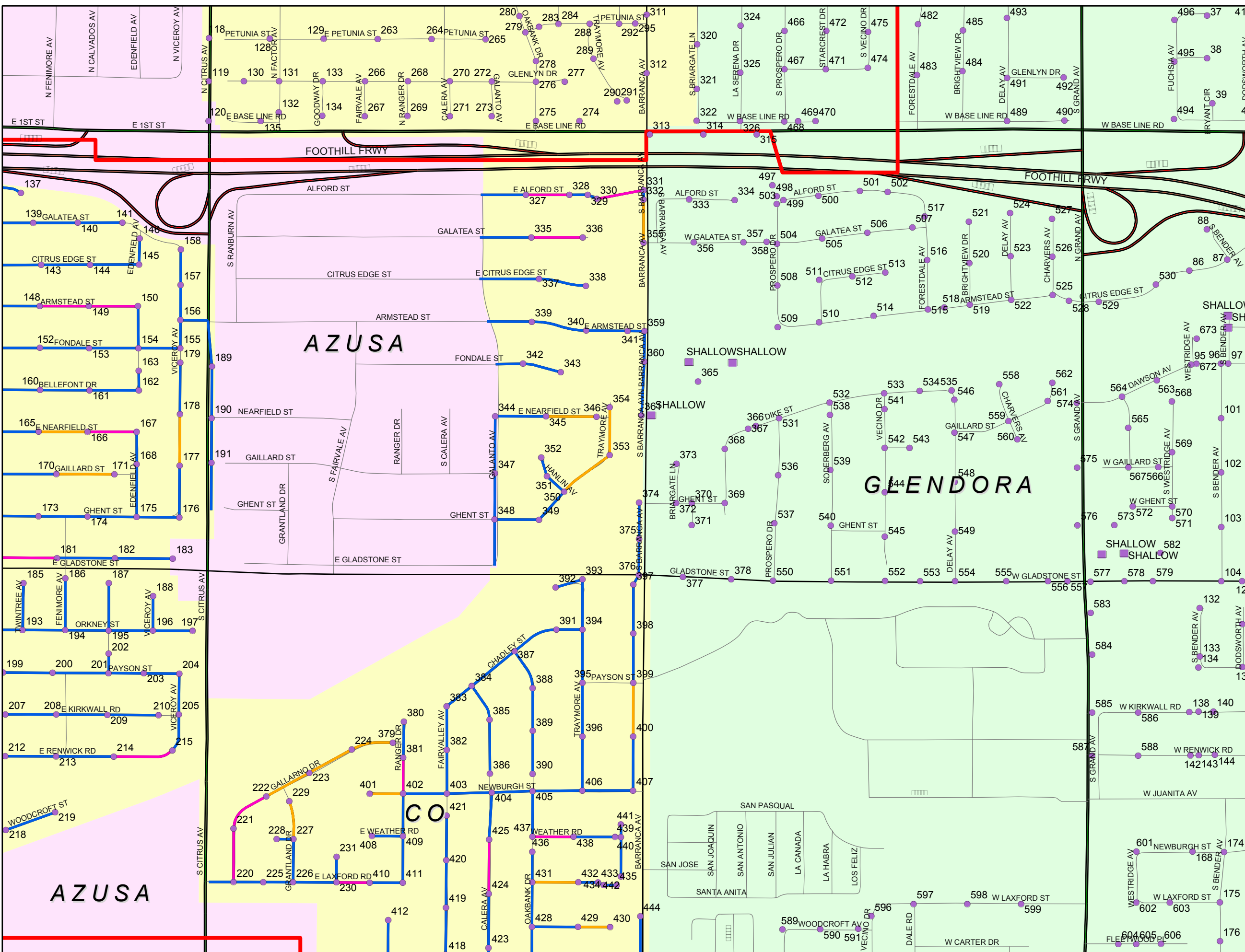
# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD sanitary Sewers

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

#### SMD Manholes

- Other (Circle with dot)
- 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 blue line)
- SMD Treatment Plants (Black box with 'WTP')
- Non SMD Sanitary Sewers (Dashed green line)
- Trunk Mh (Blue circle)
- Non SMD Maintained MH (Green dot)
- SMD Operations Maps (Blue outline)
- YOTV0708F (Red outline)

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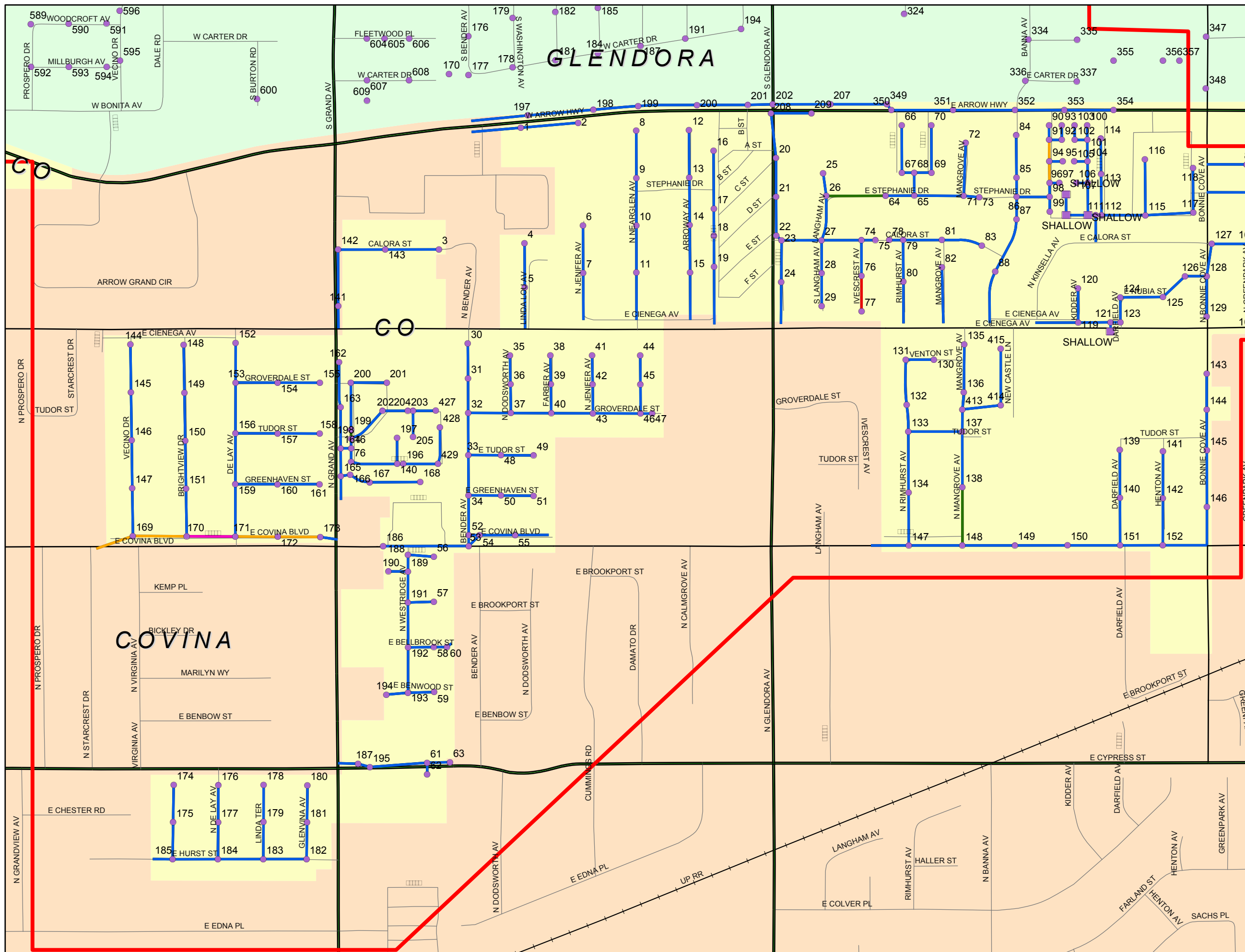
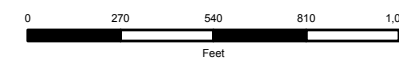
# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD sanitary Sewers

##### \_QMR

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

#### SMD Manholes

- Other (Circle with cross)
- Standard (Purple circle)
- DROP (Purple triangle)
- Shallow (Purple square)
- Trap (Purple diamond)
- Siphon (Purple circle with dot)
- 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 (Blue circle)
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- SMD Operations Maps (Blue outline)
- YOTV0708F (Red outline)

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# ENCLOSURE 2

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK MAINTENANCE RATING (QMR)



### Legend

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#### SMD Manholes

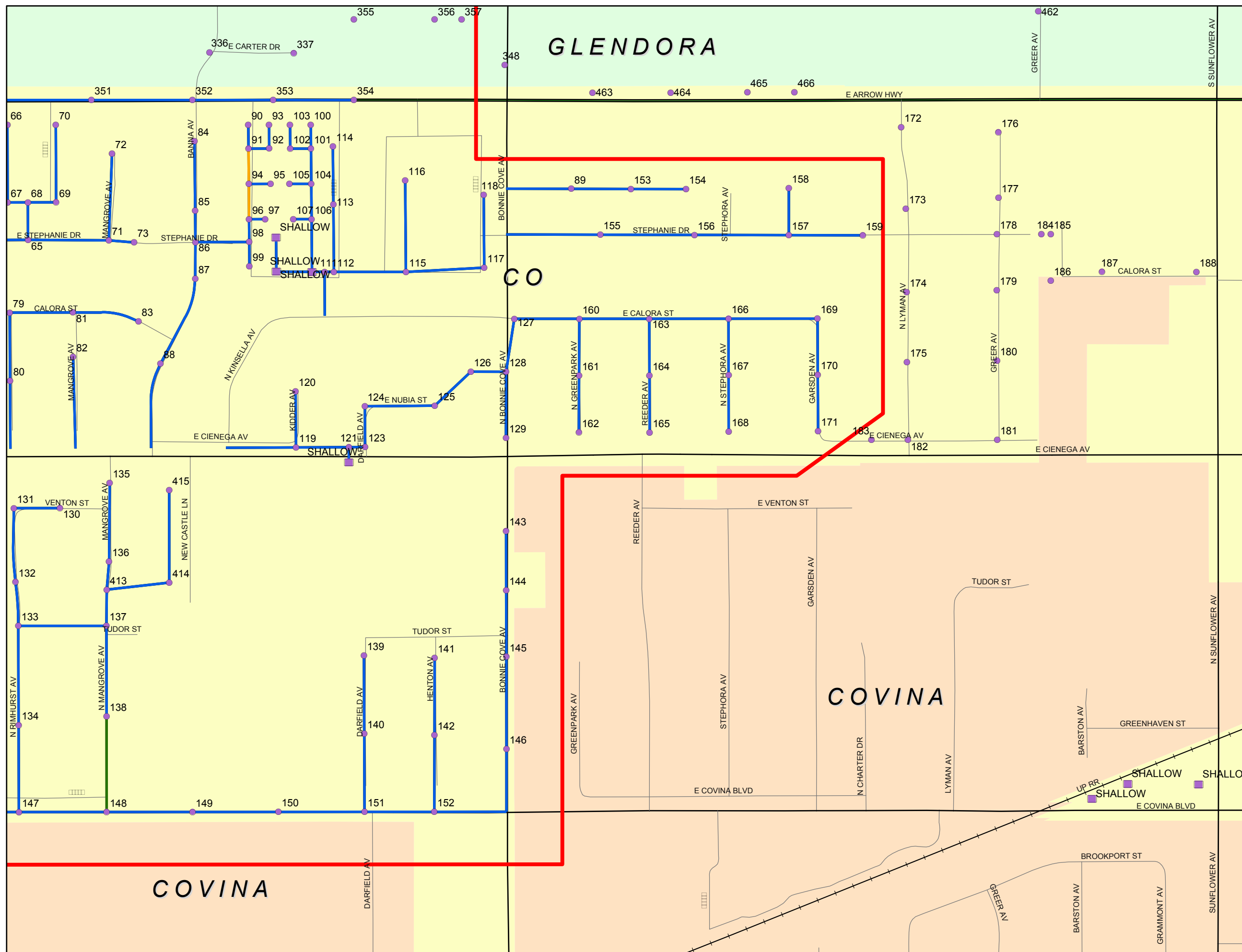
- Other
- Standard
- DROP
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- SMD Pump Satations

#### Maintained by Others:

- Trunk Sewerlines
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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 LOS ANGELES COUNTY (Y0TV0708F)**

as of 12/24/07

Item No.	QSR	Start MH	End MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	5143	2300-0165	2300-CITY	Grand Av	Hole with soil visible: 119'; fractures: 92', 96', 109'	Lining: MH to MH	124
2	4F32	2301-0031	2301-0032	Dexter St	Fractures: 16', 89', 120'; cracks (multiple locations)	Lining: MH to MH	311
3	423E	2344-0093	2344-0094	Puente St	Fractures: 42', 117', 247; cracks (multiple locations)	Lining: MH to MH	344
4	413G	2344-0095	2301-0030	Puente St	Fractures: 214'; cracks (multiple locations)	Lining: MH to MH	300
5	4632	2344-0096	2344-0097	Dexter St	Fractures: 117', 161', 174', 204', 208'; cracks (multiple locations)	Lining: MH to MH	274
6	4435	2301-0006	2301-CITY	De Lay Av	Fractures: 5', 10', 263'; cracks (multiple locations)	Lining: MH to MH	278
7	4332	2344-0094	2344-0095	Puente St	Fractures: 125', 186', 272'; cracks	Lining: MH to MH	350
8	4235	2300-0149	2300-0150	Brightview Dr	Fractures: 131', 279'; cracks (multiple locations)	Structural integrity in tact. No action needed.	
9	4232	2343-0040	2343-0043	Groverdale St	Fractures: 180', 193'; cracks (multiple locations)	Structural integrity in tact. No action needed.	
10	4231	2300-0163	2300-0164	Grand Av	Broken with soil visible: 221'; fractures: 228'	Lining: MH to MH	242
11	4136	2301-0020	2301-0021	Grand Av	Fracture: 112'; cracks (multiple locations)	Structural integrity in tact. No action needed.	
12	4136	2343-0054	2343-0055	Covina Bv	Fractures: 128', 165'; cracks (multiple locations)	Structural integrity in tact. No action needed.	
13	4135	2301-0029	2301-0030	Puente St	Fracture: 121'	Lining: MH to MH	155
14	4134	2301-0034	2301-CITY	Shadyglen Dr	Fractures: 93'; cracks (multiple locations)	Structural integrity in tact. No action needed.	
15	4134	2344-0076	2344-0077	Westridge Av	Fractures: 49'; cracks (multiple locations)	Lining: MH to MH	228
16	4133	2301-0011	2301-0012	Swanee Ln	Fracture: 67'; cracks (multiple locations)	Lining: MH to MH	200
17	4133	2301-0029	2301-0031	Grand Av	Fractures: 246'; cracks (multiple locations)	Lining: MH to MH	337
18	4133	2343-0041	2343-0042	Jenifer Av	Fractures: 184'; cracks (multiple locations)	Structural integrity in tact. No action needed.	
19	4132	2301-0017	2301-0024	De Lay Av	Fractures: 223'; cracks: 128', 138'	Lining: MH to MH	235
20	4132	2343-0031	2343-0032	Bender Av	Fractures: 56'; cracks (multiple locations)	Lining: MH to MH	218
21	4132	2343-0035	2343-0036	Dodsworth Av	Fractures: 117'; cracks	Lining: MH to MH	207
22	4132	2343-0042	2343-0043	Jenifer Av	Fracture: 172'; cracks	Structural integrity in tact. No action needed.	
23	4131	2300-0150	2300-0151	Brightview Dr	Broken & fractures: 80'	Point Repair	



Item No.	QSR	Start MH	End MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
24	4131	2343-0132	2343-0133	Rimhurst Av	Fracture: 99'	Structural integrity in tact. No action needed.	
25	4122	2343-0088	2343-TRNK	Banna Av	Fractures: 218'	Structural integrity in tact. No action needed.	
26	4121	2342-0352	2342-0353	Arrow Hy	Fracture: 8'	Structural integrity in tact. No action needed.	
27	4112	2343-0036	2343-0037	Dodsworth Av	Fracture: 125'	Structural integrity in tact. No action needed.	
28	4100	2299-0041	2299-0042	Rockvale Av	Fractures and joint offset: 7'	Structural integrity in tact. No action needed.	
29	4100	2300-0159	2300-0171	De Lay Av	Fracture: 304'	Structural integrity in tact. No action needed.	
30	4100	2300-0167	2300-0168	Easement by Grand Av	Fractures: 24'	Structural integrity in tact. No action needed.	

# ENCLOSURE 3

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK STRUCTURAL RATING (QSR)



#### Legend

##### SMD sanitary Sewers

##### QSR

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

##### SMD Manholes

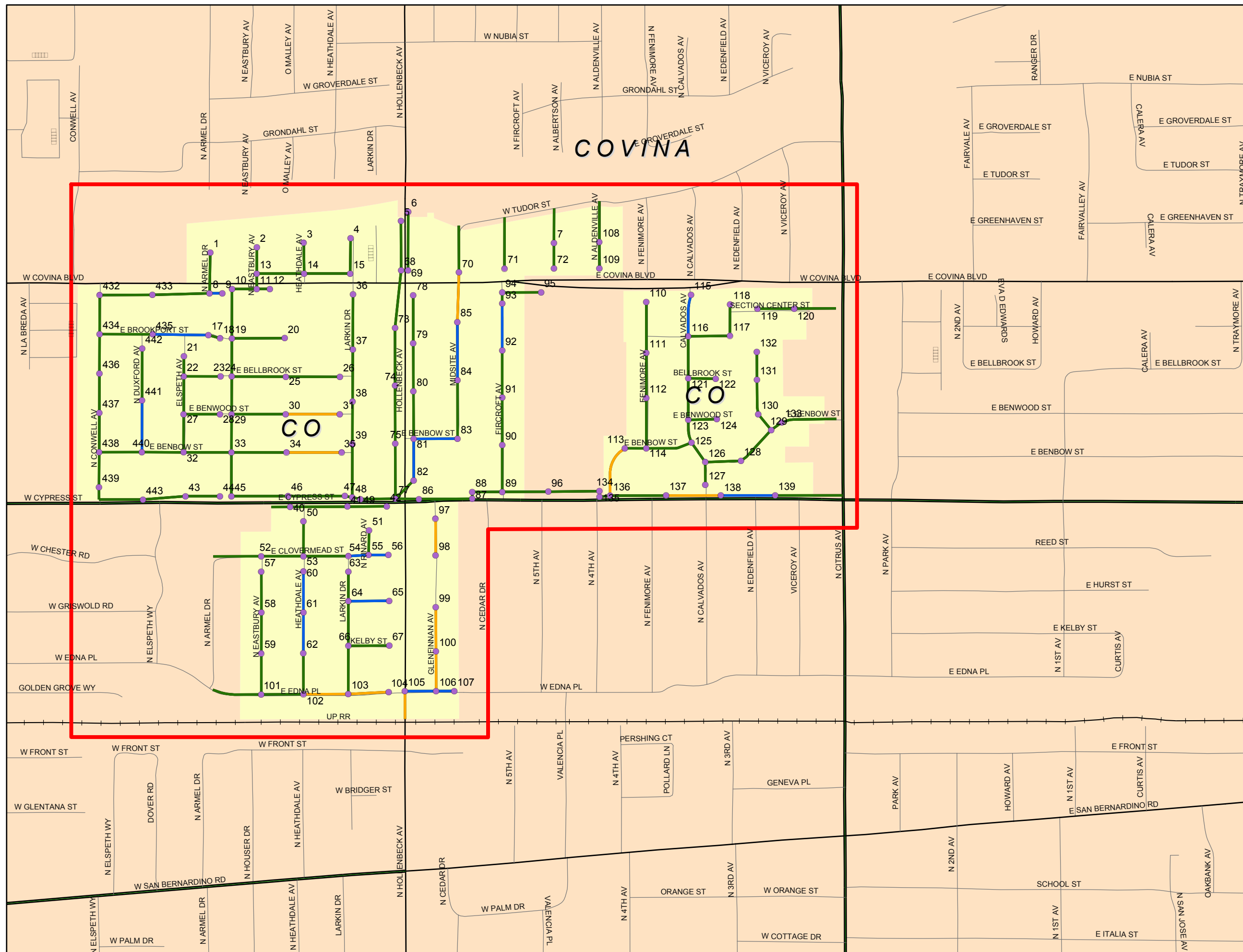
- Other
- Manhole Type**
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Satations

##### Maintained by Others:

- Trunk Sewerlines
- SMD Treatment Plants
- - - Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- YOTV0708F

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APRIL 2009



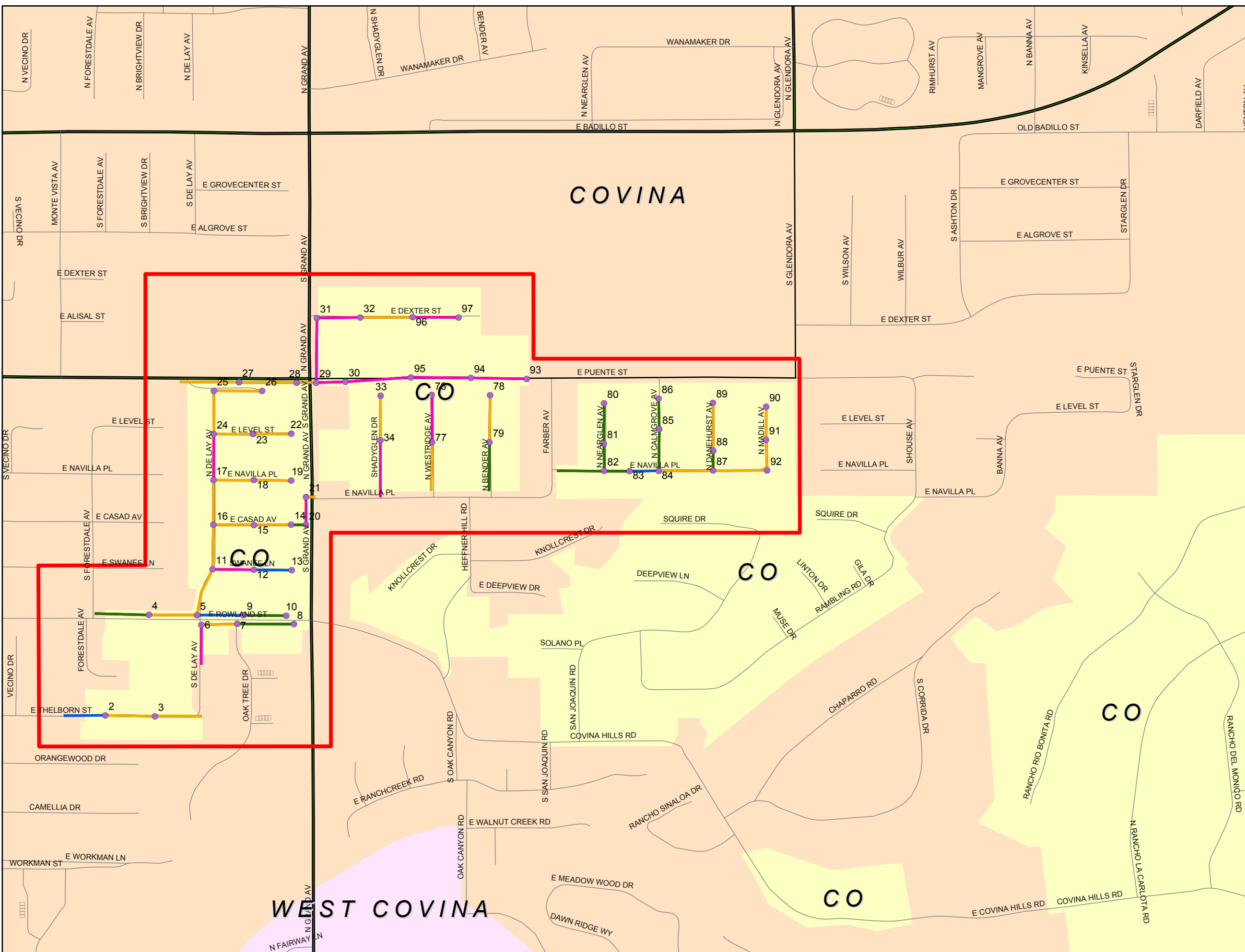
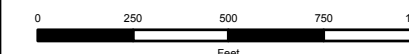
# ENCLOSURE 3

CCTV PROJECT

**YOTV0708F**

Supervisorial District 5  
Unincorporated County

**QUICK  
STRUCTURAL  
RATING  
(QSR)**



## Legend

### SMD sanitary Sewers

#### QSR

- 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:

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- SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
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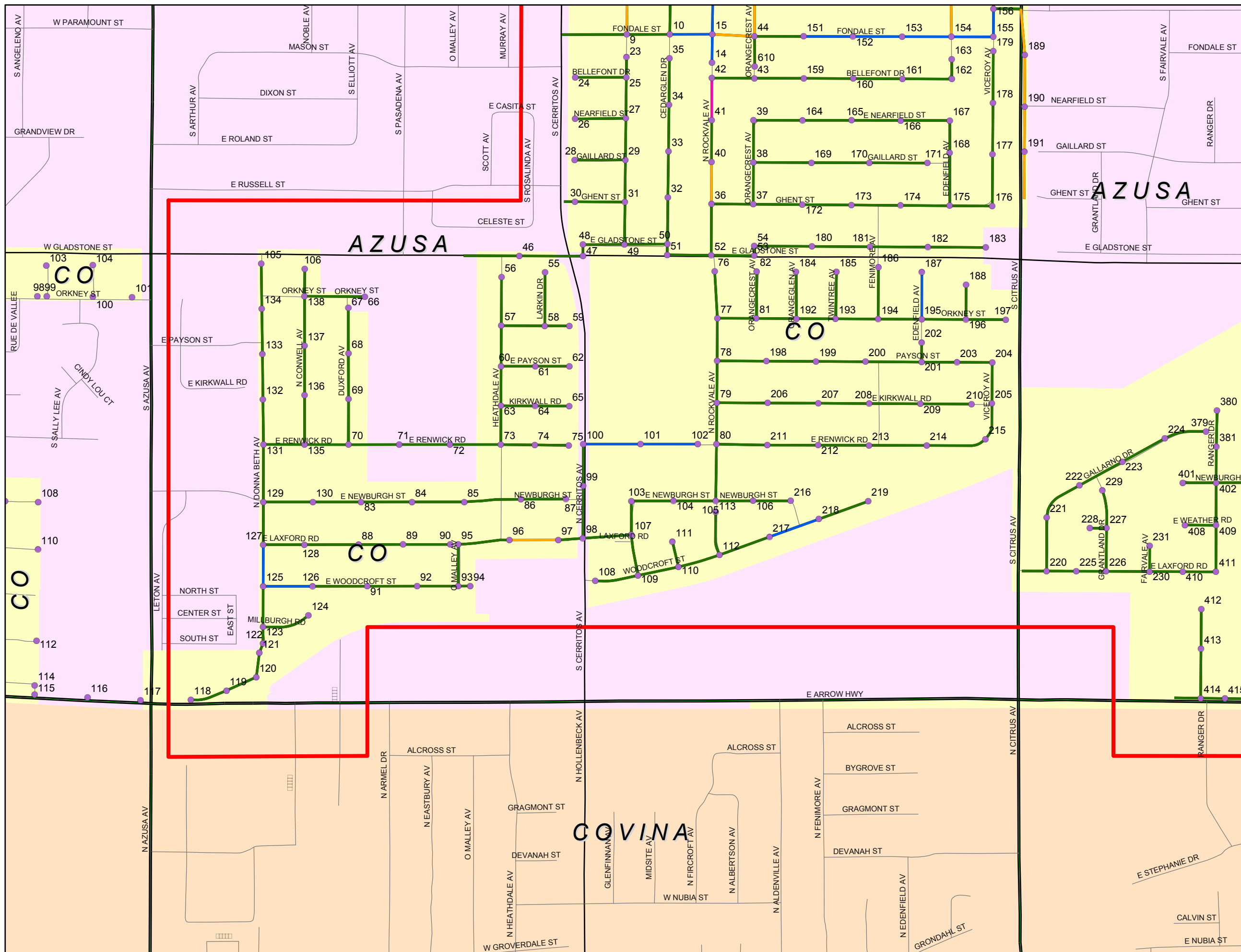
# ENCLOSURE 3

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK STRUCTURAL RATING (QSR)



#### Legend

##### SMD sanitary Sewers

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- 1: EXCELLENT
- 2: GOOD
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##### 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
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- YOTV0708F

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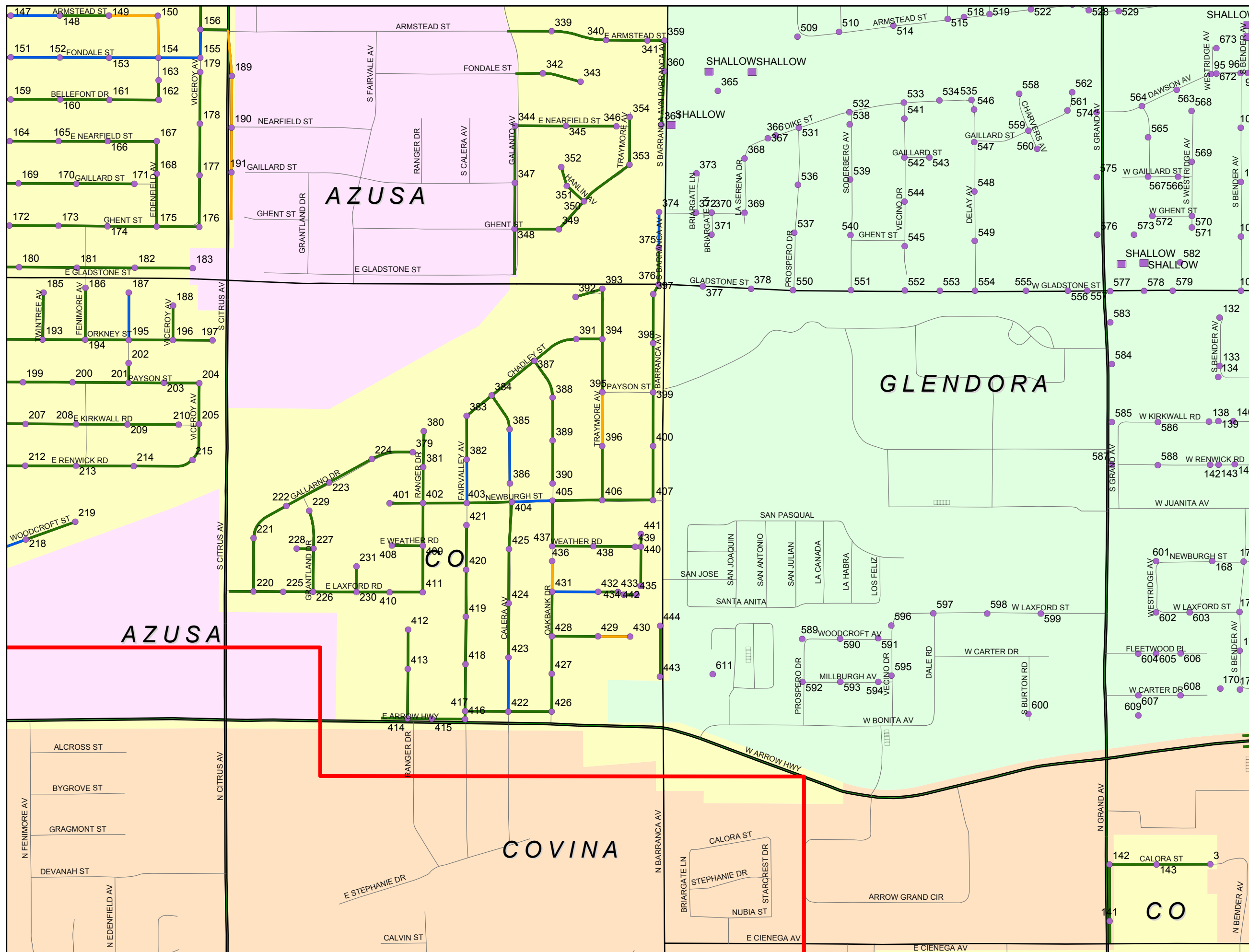
# ENCLOSURE 3

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK STRUCTURAL RATING (QSR)



#### Legend

##### SMD sanitary Sewers

##### QSR

- 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
- YOTV0708F

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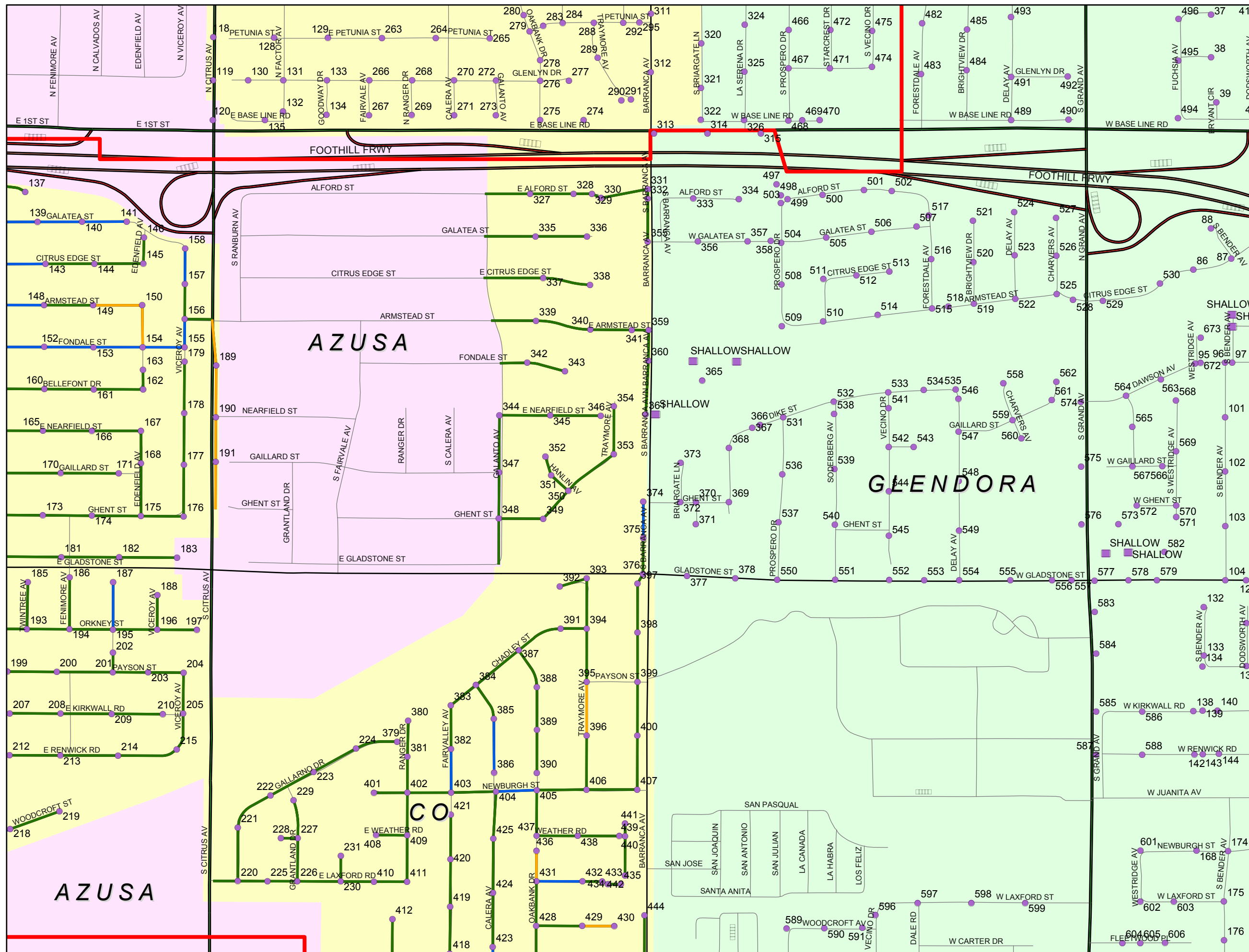
# ENCLOSURE 3

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD sanitary Sewers

##### QSR

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

#### SMD Manholes

- Other (Circle with dot)
- 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 blue line)
- SMD Treatment Plants (Black box with 'WTP')
- Non SMD Sanitary Sewers (Dashed green line)
- Trunk Mh (Blue circle)
- Non SMD Maintained MH (Green dot)
- SMD Operations Maps (Blue outline)
- YOTV0708F (Red outline)

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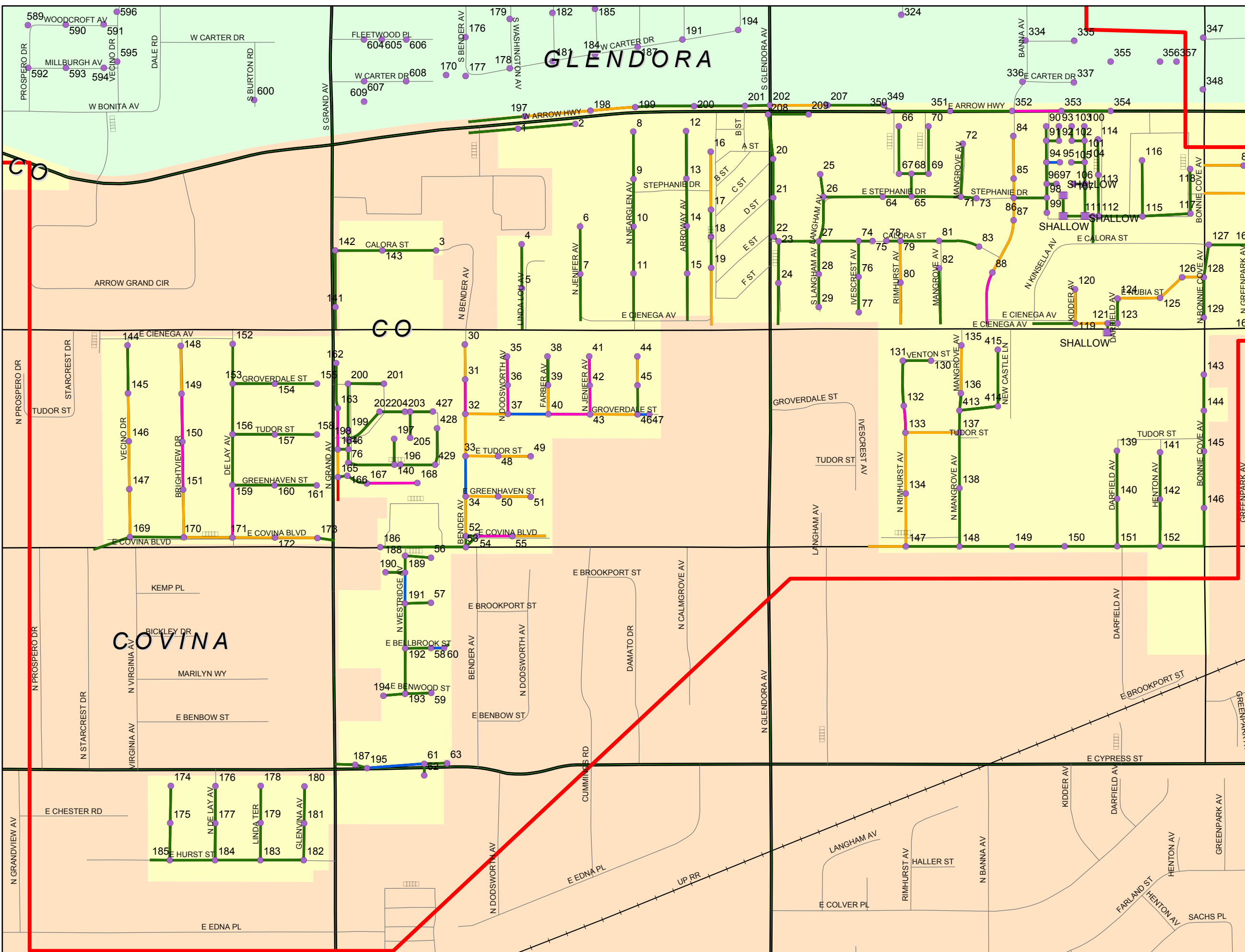
# ENCLOSURE 3

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK STRUCTURAL RATING (QSR)



### Legend

#### SMD sanitary Sewers

##### QSR

- 1: EXCELLENT
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- 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
- YOTV0708F

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APRIL 2009

# ENCLOSURE 3

CCTV PROJECT

## YOTV0708F

Supervisorial District 5  
Unincorporated County

### QUICK STRUCTURAL RATING (QSR)



#### Legend

#### SMD sanitary Sewers

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#### SMD Manholes

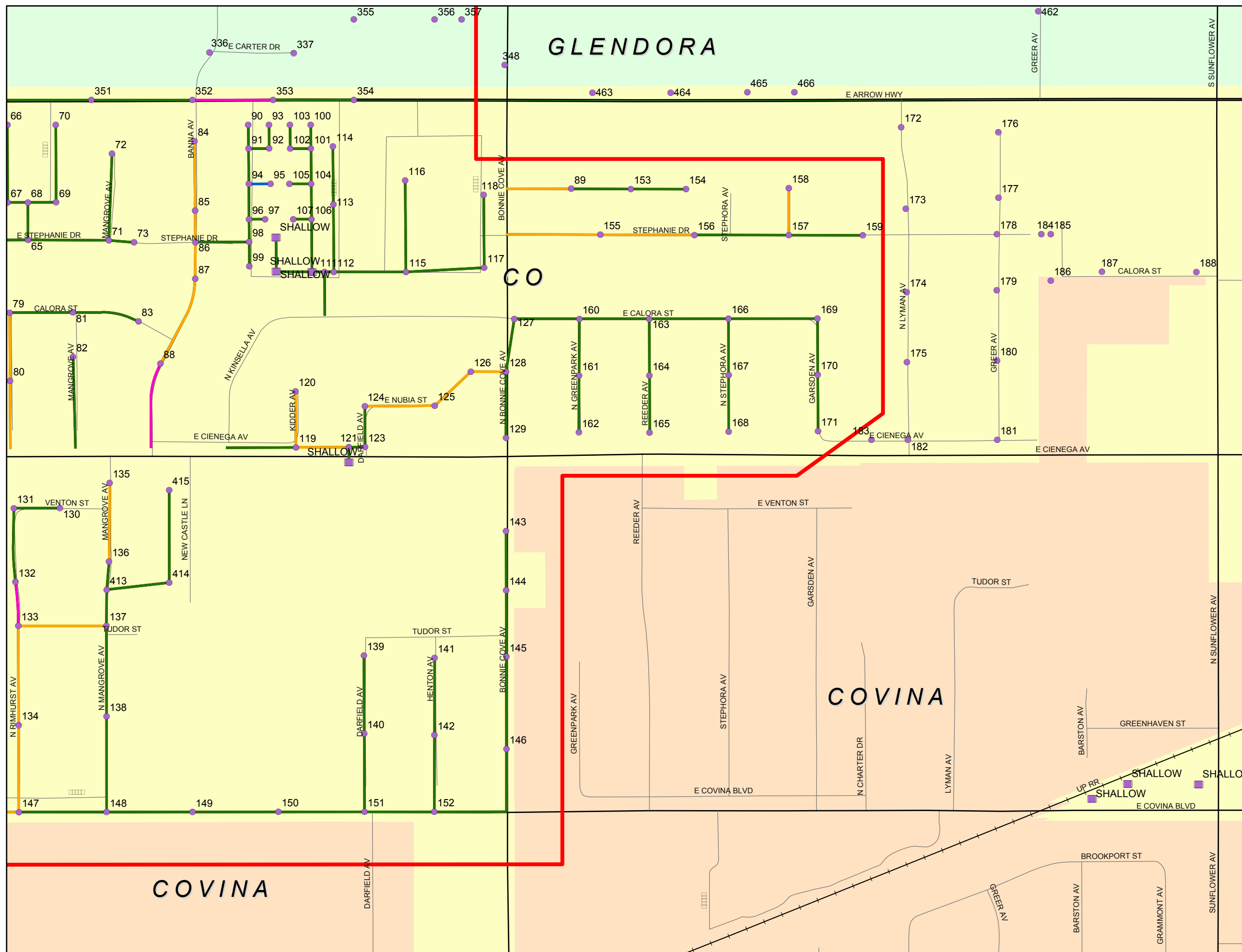
- Other
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- SMD Pump Satations

#### Maintained by Others:

- Trunk Sewerlines
- WTP SMD Treatment Plants
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- YOTV0708F

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APRIL 2009



## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5





## Inspection report

Date: <b>20071105</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>529</b>	PSR: <b>97801</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071105</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

Street: <b>GRAND AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2300-0165</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2300-CITY</b>
Location Code: <b>A Main Highway Urban</b>	Tape/Media #: <b>1</b>	pipe length: <b>124.33 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>145</b>
Drain. Area: <b>2300</b>	Lining Method:
	Category:

Remark.: **NONE**

1:325	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2300-0165		549_1a, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	9.74	Tap Factory Made Capped, at 09 o'clock, 6" within 8 inch: YES	00:01:22	549_4a	
	35.95	Tap Factory Made Capped, at 09 o'clock, 6" within 8 inch: YES	00:02:18	549_5a	
	92.49	Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:04:14	549_6a, b	S 4
	95.91	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:04:35	549_7a	
	96.31	Fracture Multiple, from 02 to 08 o'clock, within 8 inch: YES	00:04:47	549_8a, b	S 4
	109.16	Fracture Multiple, from 02 to 07 o'clock, within 8 inch: YES	00:05:29	549_9a, b	S 4
	119.81	Hole Soil Visible, from 02 to 05 o'clock, within 8 inch: YES	00:06:07	549_10a, b	S 5
	124.33	Downstream Manhole, Survey Ends 2300-CITY	00:06:55	549_11a	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5143	2200	17	4	21	4.25	2	3.5





## Inspection report

Date: <b>20071023</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>175</b>	PSR: <b>97752</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071023</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>DEXTER ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0031</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-0032</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>311.12 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>238</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark:: **MH # REVERSED ON MAP**

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0032		2103, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	5.22	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:49	2105	
	16.67	Fracture Circumferential, from 01 to 04 o'clock, within 8 inch: YES	00:01:15	2106, b	S 2
	28.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:44	2108	
	83.86	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:03:18	2109, b	S 2
	89.38	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:03:38	2111, b	S 4
	93.50	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:04:00	2113, b	S 3
	98.52	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:18	2115	
	117.20	Crack Longitudinal, at 03 o'clock, within 8 inch: YES	00:05:05	2116, b	S 2
	120.51 <b>S1</b>	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES, start	00:05:25	2118, b	S 4
	131.56	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:06	2120	
	157.97	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:18	2121	
	187.60	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:16	2122	
	215.92	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:09:23	2123	S 2
	307.61	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES, end	00:11:51	2124	S 3
	309.92 <b>F1</b>	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES, end	00:12:51	2125	S 4
	311.12	Vermin Cockroach, within 8 inch: YES	00:13:16	2127, b	M 1
	311.12	Downstream Manhole, Survey Ends 2301-0031	00:13:28	2129	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4G32	2211	170	5	175	3.78	1.67	3.65



## Inspection report

Date: <b>20071018</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>73</b>	PSR: <b>93347</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071017</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2344</b>

Street: <b>DEXTER ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2344-0096</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2344-0097</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>274.67 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>251</b>
Drain. Area: <b>2344</b>	Lining Method:
	Category:

Remark.: **MH# REVERSED ON MAP**

1:594	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2344-0097		869, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	5.52	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:51	871	
	16.87	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:21	872	
	67.59	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:57	873	
	94.80	Crack Longitudinal, at 05 o'clock, within 8 inch: YES	00:03:58	874, b	S 2
	103.44	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:04:57	876	
	117.90	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:06:23	877, b	S 4
	131.66	Crack Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:07:11	879, b	S 3
	145.02	Crack Multiple, from 02 to 08 o'clock, within 8 inch: YES	00:08:13	881, b	S 3
	157.47	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:09:09	883	
	161.49	Fracture Multiple, from 03 to 08 o'clock, within 8 inch: YES	00:09:40	884, b	S 4
	174.94	Roots Fine Joint, from 03 to 08 o'clock, within 8 inch: YES	00:10:59	886	
	174.94	Fracture Multiple, from 02 to 08 o'clock, within 8 inch: YES	00:11:13	887, b	S 4
	180.67	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:11:58	889	
	181.47	Roots Fine Joint, at 09 o'clock, within 8 inch: YES	00:12:20	890, b	
	201.76	Roots Fine Joint, at 03 o'clock, within 8 inch: YES	00:13:40	892, b	
	204.97	Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:14:10	894, b	S 4
	208.79	Fracture Multiple, from 08 to 04 o'clock, within 8 inch: YES	00:15:05	896, b	S 4
	225.96	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:16:14	898, b	
	232.49	Roots Fine Joint, from 11 to 04 o'clock, within 8 inch: YES	00:16:49	900, b	
	239.52	Fracture Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:17:21	902, b	S 4
	245.14	Tap Factory Made Active, at 02 o'clock, 6" within 8 inch: YES	00:17:56	904	



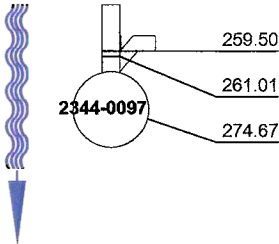
**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach, CA 90813-2741  
 Tel: 562-436-7600, Fax: 562-495-1528

## Inspection report

Date: <b>20071018</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>73</b>	PSR: <b>93347</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071017</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2344</b>

1:594	position	observation	MPEG	photo	grade
	259.50	Crack Longitudinal, at 08 o'clock, within 8 inch: YES	00:18:41	905, b	S 2
	261.01	Tap Factory Made Active, at 10 o'clock, 6" within 8 inch: YES	00:19:04	907	
	274.67	Downstream Manhole, Survey Ends 2344-0096	00:19:59	908	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4632	2200	34	4	38	3.4	2	3.17



## Inspection report

Date: <b>20071023</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>161</b>	PSR: <b>97727</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071023</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>DE LAY AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0006</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-CITY</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>278.48 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>208</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark.: **NONE**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0006		1883, b	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	5.72	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:01:03	1885, b	S 4
	10.75	Fracture Multiple, from 03 to 10 o'clock, within 8 inch: YES	00:01:35	1887, b	S 4
	35.55	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:41	1889	
	53.73	Crack Multiple, from 08 to 10 o'clock, within 8 inch: YES	00:03:26	1890, b	S 3
	58.35	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:03:51	1892	
	86.67	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:49	1893, b	S 3
	96.91	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:24	1895, b	S 3
	121.62	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:06:21	1897	
	136.68	Crack Multiple, from 01 to 06 o'clock, within 8 inch: YES	00:06:53	1898, b	S 3
	137.79	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:09	1900	
	138.49	Crack Circumferential, from 08 to 04 o'clock, within 8 inch: YES	00:07:29	1901, b	S 1
	145.82	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:08:04	1903, b	S 2
	149.43	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:08:26	1905, b	S 3
	176.55	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:09:24	1907, b	S 2
	194.22	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:10:03	1909	
	227.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:05	1910	
	243.03	Tap Factory Made Capped, at 09 o'clock, 6" within 8 inch: YES	00:11:44	1911	
	261.11	Fracture Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:12:24	1912, b	S 4
	263.62	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:12:44	1914, b	S 4
	278.48	Downstream Manhole, Survey Ends 2301-CITY	00:13:46	1917	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4435	2200	36	4	40	3	2	2.86



## Inspection report

Date: <b>20071018</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>30</b>	PSR: <b>93346</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071018</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2344</b>

Street: <b>PUENTE ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2344-0094</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2344-0095</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>350.79 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>327</b>
Drain. Area: <b>2344</b>	Lining Method:
	Category:

Remark **NONE**

1:875	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2344-0094		431. b	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	44.09	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:02:10	433, b	S 2
	61.16	Crack Longitudinal, at 08 o'clock, within 8 inch: YES	00:03:17	435, b	S 2
	65.18	Tap Factory Made Capped, at 02 o'clock, 6", within 8 inch: YES	00:05:49	437	
	125.13	Fracture Multiple, from 04 to 08 o'clock, within 8 inch: YES	00:08:35	438, b	S 4
	151.34	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:09:59	440	
	186.19	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:11:43	441, b	S 4
	217.32	Crack Longitudinal, at 08 o'clock, within 8 inch: YES	00:13:27	443, b	S 2
	239.42	Tap Factory Made Active, at 02 o'clock, 5" within 8 inch: YES	00:14:42	445	
	255.59	Tap Factory Made Active, at 02 o'clock, 5", within 8 inch: YES	00:15:37	446	
	272.96	Fracture Multiple, from 03 to 07 o'clock, within 8 inch: YES	00:16:34	447, b	S 4
	304.29	Crack Multiple, from 07 to 08 o'clock, within 8 inch: YES	00:19:02	449	S 3
	331.11	Crack Multiple, from 05 to 08 o'clock, within 8 inch: YES	00:21:10	450, b	S 3
	350.79	Downstream Manhole, Survey Ends 2344-0095	00:22:45	452	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4332	2200	24	4	28	3	2	2.8





## Inspection report

Date: <b>20071018</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number <b>72</b>	PSR: <b>93345</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071017</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2344</b>

Street: <b>PUENTE ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2344-0093</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2344-0094</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>344.66 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>338</b>
Drain. Area: <b>2344</b>	Lining Method:
	Category:

Remark: **CRACKS**

1:850	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2344-0093	00:00:03	847, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	28.92	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:48	849	
	42.38	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:03:34	850, b	S 4
	57.14	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:04:22	852, b	S 3
	117.90	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:06:31	854, b	S 4
	154.86	Crack Multiple, from 06 to 01 o'clock, within 8 inch YES	00:07:55	856, b	S 3
	183.58	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:23	858	
	188.30	Crack Multiple, from 01 to 06 o'clock, within 8 inch YES	00:09:42	859, b	S 3
	201.46	Crack Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:10:28	861, b	S 3
	204.17 S1	Crack Multiple, from 02 to 10 o'clock, within 8 inch: YES, start	00:10:49	863, b	S 3
	308.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:14	865	
	324.78	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:56	866	
	338.04 F1	Crack Multiple, from 02 to 10 o'clock, within 8 inch: YES, end	00:15:37	867	S 3
	344.66	Downstream Manhole, Survey Ends 2344-0094	00:16:21	868	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
423E	2200	101	4	105	3.06	2	3



## Inspection report

Date: <b>20071025</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>189</b>	PSR: <b>97784</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071025</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

Street: <b>BRIGHTVIEW DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2300-0149</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2300-0150</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>303.59 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>290</b>
Drain. Area: <b>2300</b>	Lining Method:
	Category:

Remark: **NONE**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2300-0149		2258, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	12.55	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:01	2260	
	15.16	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:13	2261	
	33.84	Crack Multiple, from 07 to 09 o'clock, within 8 inch: YES	00:01:56	2262, b	S 3
	78.63	Crack Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:03:26	2264, b	S 3
	79.64	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:42	2266	
	81.25	Crack Multiple, from 06 to 11 o'clock, within 8 inch: YES	00:03:55	2267, b	S 3
	82.25	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:11	2269	
	104.54	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:05:11	2270, b	S 3
	112.38	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:45	2272	
	131.16	Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:06:29	2273, b	S 4
	132.26	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:46	2275	
	186.49	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:33	2276	
	191.11	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:08:54	2277, b	S 3
	199.15	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:25	2279	
	222.14	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:21	2280	
	230.33	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:10:44	2281, b	S 2
	233.69	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:11:06	2283, b	S 2
	248.86	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:47	2285	
	278.78	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:53	2286	
	279.99	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:13:05	2287, b	S 4
	281.29	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:29	2289	
	303.59	Downstream Manhole, Survey Ends 2300-0150	00:14:33	2291	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4235	2200	27	4	31	3	2	2.82



## Inspection report

Date: <b>20071030</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number <b>381</b>	PSR: <b>93856</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071030</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>GROVERDALE ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0040</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2343-0043</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>267.03 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>254</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark **MH # REVERSED ON MAP**

1.675	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0043		142, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	9.24	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:01:05	144	
	85.36	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:15	145	
	103.34	Crack Spiral, from 01 to 05 o'clock, within 8 inch: YES	00:04:04	146, b	S 2
	130.25	Crack Circumferential, from 08 to 03 o'clock, within 8 inch: YES	00:05:39	148, b	S 1
	158.37	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:06:48	150	
	169.92	Crack Multiple, from 02 to 06 o'clock, within 8 inch: YES	00:07:20	151, b	S 3
	179.56	Roots Fine Joint, from 12 to 02 o'clock, within 8 inch: YES	00:07:47	153, b	
	180.17	Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:08:01	155, b	S 4
	193.42	Fracture Multiple, from 12 to 08 o'clock, within 8 inch: YES	00:08:36	157, b	S 4
	206.98	Crack Multiple, from 02 to 08 o'clock, within 8 inch: YES	00:09:10	159, b	S 3
	218.23	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:09:44	161	
	225.96	Roots Fine Joint, at 09 o'clock, within 8 inch: YES	00:10:11	162, b	
	263.12	Crack Circumferential, from 03 to 09 o'clock, within 8 inch: YES	00:11:32	164, b	S 1
	267.03	Downstream Manhole, Survey Ends 2343-0040	00:12:28	167	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4232	2200	18	4	22	2.57	2	2.44



**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach, CA 90813-2741  
 Tel: 562-436-7600, Fax: 562-495-1528

## Inspection report

Date: <b>20071105</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>527</b>	PSR: <b>97798</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071105</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

Street: <b>GRAND AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2300-0163</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2300-0164</b>
Location Code: <b>A Main Highway Urban</b>	Tape/Media #: <b>1</b>	pipe length: <b>242 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>290</b>
Drain. Area: <b>2300</b>	Lining Method:
	Category:

Remark:: **NONE**

1:600	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2300-0163		547_1a, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	39.97	Tap Factory Made Capped, at 09 o'clock, 6" within 8 inch: YES	00:01:54	547_4a	
	92.49	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:03:31	547_5a	
	148.83	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:05:16	547_6a	
	220.74	Water Level, 15 % of cross sectional area	00:07:30	547_7a	M 2
	221.24	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:07:40	547_8a, b	S 4
	222.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:59	547_9a	
	228.47	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:08:33	547_10a, b	S 4
	230.18	Water Level, 5 % of cross sectional area	00:08:53		M 2
	238.51	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:09:09	547_12a, b	S 3
	242.00	Downstream Manhole, Survey Ends 2300-0164	00:10:35	547_13a	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	2400	11	8	19	3.67	2	2.71



## Inspection report

Date: <b>20071018</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>31</b>	PSR: <b>97751</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071018</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2344</b>

Street: <b>PUENTE ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2344-0095</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-0030</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>300.28 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>350</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark **CRACKS**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2344-0095		453, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	14.16	Crack Multiple, from 04 to 07 o'clock, within 8 inch: YES	00:01:18	455, b	S 3
	17.78	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:01:39	457, b	S 2
	26.41	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:02:12	459	
	44.29	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:03:01	460, b	S 3
	74.92	Crack Spiral, from 06 to 10 o'clock, within 8 inch: YES	00:04:24	462, b	S 2
	85.76 S1	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES, start	00:05:00	464, b	S 3
	149.03	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:07:37	466	
	214.11	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:10:00	467	
	214.11	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:10:11	468, b	S 4
	294.35	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:14:15	470	
	296.96 F1	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES, end	00:14:32	471	S 3
	300.28	Downstream Manhole, Survey Ends 2344-0030	00:15:09	472	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413H	2200	140	4	144	2.98	2	2.94





**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach, CA 90813-2741  
 Tel: 562-436-7600, Fax: 562-495-1528

## Inspection report

Date: <b>20071023</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>172</b>	PSR: <b>97740</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071023</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>GRAND AVE</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0020</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-0021</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>152.85 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>152</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark: **MH # REVERSED ON MAP**

1:375	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0021		2057 b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	17.37	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:13	2059. b	S 3
	30.43	Roots Fine Joint, at 09 o'clock, within 8 inch: YES	00:01:47	2061, b	
	43.18	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:02:22	2063, b	S 3
	63.17	Roots Fine Joint, at 09 o'clock, within 8 inch: YES	00:03:14	2065, b	
	86.47	Crack Multiple, from 09 to 01 o'clock, within 8 inch: YES	00:04:01	2067, b	S 3
	106.45	Crack Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:04:52	2069, b	S 3
	112.68	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:05:19	2071, b	S 4
	125.93	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:58	2073, b	S 3
	142.61	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:39	2075, b	S 3
	152.85	Downstream Manhole, Survey Ends 2301-0020	00:07:23	2078	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4136	2200	22	4	26	3.14	2	2.89



## Inspection report

Date: <b>20071031</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>392</b>	PSR: <b>93868</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071031</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>COVINA BV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0054</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2343-0055</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>170.22 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>216</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark **MH # REVERSED ON MAP**

1:425	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0055	00:14:31	414, b	
	0.00	Water Level, 15 % of cross sectional area	00:14:34		M 2
	0.00	Water Mark, 20 of cross sectional area	00:14:36		M 2
	14.96	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:01:24	416, b	S 3
	41.98	Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:02:30	418, b	S 3
	46.50	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:56	420	
	51.22	Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:03:14	421, b	S 3
	54.63	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	00:03:36	423, b	S 2
	108.06	Crack Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:05:18	425, b	S 3
	114.89	Crack Circumferential, from 08 to 11 o'clock, within 8 inch: YES	00:05:47	427, b	S 1
	128.24	Fracture Multiple, from 02 to 07 o'clock, within 8 inch: YES	00:06:26	429, b	S 4
	161.49	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:07:29	431, b	S 3
	165.00	Fracture Longitudinal, at 09 o'clock, within 8 inch: YES	00:07:47	433, b	S 3
	170.22	Downstream Manhole, Survey Ends 2343-0054	00:08:25	436	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4136	2200	25	4	29	2.78	2	2.64



**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach, CA 90813-2741  
 Tel: 562-436-7600, Fax: 562-495-1528

## Inspection report

Date: <b>20071019</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J.SALAS</b>	section number: <b>10</b>	PSR: <b>97750</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071018</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>GRAND AVE</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0029</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-0031</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>337 13 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>353</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark: **MH# REVERSED ON MAP**

1:825	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0031		138, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	38.26	Crack Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:01:56	140, b	S 3
	55.64	Crack Multiple, from 07 to 11 o'clock, within 8 inch: YES	00:02:36	142, b	S 3
	57.14	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:48	144	
	92.49	Crack Multiple, from 12 to 03 o'clock, within 8 inch YES	00:03:54	145, b	S 3
	209.29	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:07:20	147	
	246.25	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:08:24	148, b	S 4
	311.52	Crack Longitudinal, at 04 o'clock, within 8 inch: YES	00:10:26	150, b	S 2
	337.13	Downstream Manhole, Survey Ends 2301-0029	00:11:49	152	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2200	15	4	19	3	2	2.71



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## Inspection report

Date: <b>20071018</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>71</b>	PSR: <b>97755</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071017</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>SHADYGLEN DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0034</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2301-CITY</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>189.2 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>297</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark: **NONE**

1:475	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0034		826, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	49.61	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:08	828	
	52.22	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:29	829	
	66.88	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:03:14	830, b	S 2
	73.61	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:06	832, b	S 3
	86.97	Crack Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:05:09	834, b	S 3
	93.50	Fracture Multiple, from 12 to 05 o'clock, within 8 inch: YES	00:06:14	836, b	S 4
	117.30	Crack Multiple, from 12 to 04 o'clock, within 8 inch: YES	00:07:51	838, b	S 3
	147.23	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:09:13	840, b	S 2
	151.24	Crack Multiple, from 09 to 10 o'clock, within 8 inch: YES	00:10:00	842, b	S 3
	163.59	Deposits Ingress Fine, 5 % of cross sectional area, from 04 to 07 o'clock, within 8 inch: YES	00:11:04	844, b	M 2
	189.20	Downstream Manhole, Survey Ends 2301-CITY	00:12:43	846	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4134	2300	20	6	26	2.86	2	2.6





## Inspection report

Date: <b>20071022</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>164</b>	PSR: <b>97730</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071022</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>SWANEE LN</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0011</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2301-0012</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>199.95 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>226</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark **MH # REVERSED ON MAP**

1:500	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0012		1936, b	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 10 of cross sectional area			M 2
	18.48	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:01:06	1938	
	66.28	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:29	1939	
	67.89	Fracture Multiple, from 01 to 05 o'clock, within 8 inch: YES	00:02:43	1940, b	S 4
	108.16	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:01	1942	
	124.73	Crack Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:04:39	1943, b	S 3
	134.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:10	1945	
	136.36	Crack Circumferential, from 02 to 06 o'clock, within 8 inch: YES	00:05:26	1946, b	S 1
	148.83	Crack Multiple, from 04 to 09 o'clock, within 8 inch: YES	00:06:12	1948, b	S 3
	175.75	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:07:13	1950, b	S 3
	199.95	Downstream Manhole, Survey Ends 2301-0011	00:08:21	1953	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2200	14	4	18	2.8	2	2.57



**National Plant Services**  
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 Long Beach, CA 90813-2741  
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## Inspection report

Date: <b>20071019</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>9</b>	PSR: <b>97749</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071018</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>PUENTE ST</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0029</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-0030</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>155.96 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>159</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark: **MH# REVERSED ON MAP**

1 400	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0030		131. b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	121.01	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:05:04	133, b	S 4
	132.66 S1	Crack Multiple, from 03 to 09 o'clock, within 8 inch YES, start	00:05:43	135, b	S 3
	155.96 F1	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES, end	00:06:48		S 3
	155.96	Downstream Manhole, Survey Ends 2301-0029	00:06:58	137	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4135	2200	19	4	23	3.17	2	2.88



## Inspection report

Date: <b>20071030</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>382</b>	PSR: <b>93857</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071030</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>JENIFER AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0041</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2343-0042</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>207.78 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>175</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark.: **NONE**

1.525	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0041		1, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	7.03	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:54	3	
	9.84	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:10	4	
	31.53	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:57	5, b	S 3
	32.54	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:13	7	
	35.05	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:27	8	
	73.71	Crack Circumferential, from 01 to 06 o'clock, within 8 inch: YES	00:03:36	9, b	S 1
	78.23	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:57	11	
	87.57	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:23	12	
	109.26	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:13	13, b	S 3
	140.60	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:19	15	
	152.15	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:57	16, b	S 3
	166.61	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:36	18	
	181.37	Crack Circumferential, from 12 to 12 o'clock, within 8 inch: YES	00:08:14	19, b	S 1
	184.68	Fracture Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:08:34	21, b	S 4
	199.45	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:09:21	23	
	207.78	Vermin Cockroach	00:10:12	25	M 1
	207.78	Downstream Manhole, Survey Ends 2343-0042	00:10:23	26	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2211	15	5	20	2.5	1.67	2.22



## Inspection report

Date: <b>20071019</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>2</b>	PSR: <b>97738</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071018</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2301</b>

Street: <b>DE LAY AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2301-0017</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2301-0024</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>235.1 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>251</b>
Drain. Area: <b>2301</b>	Lining Method:
	Category:

Remark **MH# REVERSED ON MAP**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2301-0024		2_1a	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	36.25	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:02:29	2_4a	
	111.67	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:04:51	2_5a	
	128.35	Crack Multiple, from 05 to 08 o'clock, within 8 inch: YES	00:05:38	2_6a, b	S 3
	138.19	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:54	2_7a, b	S 3
	192.62	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:08:52	2_8a	
	223.75	Fracture Multiple, from 02 to 08 o'clock, within 8 inch: YES	00:10:20	2_9a, b	S 4
	235.10	Downstream Manhole, Survey Ends 2301-0017	00:11:25	2_10a	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2200	10	4	14	3.33	2	2.8





## Inspection report

Date: <b>20071030</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>369</b>	PSR: <b>93844</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071030</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>BENDER AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0031</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2343-0032</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>218.53 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>210</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark	NONE
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1:550	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0031		229, b	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	10.24	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:00:54	231, b	S 3
	56.84	Fracture Multiple, from 02 to 09 o'clock, within 8 inch: YES	00:02:37	233, b	S 4
	58.25	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:49	235	
	60.76	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:03	236	
	99.82	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:35	237, b	S 3
	140.50	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:55	239	
	143.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:10	240	
	151.34	Crack Circumferential, from 09 to 01 o'clock, within 8 inch: YES	00:06:40	241, b	S 1
	164.00	Crack Circumferential, from 07 to 11 o'clock, within 8 inch: YES	00:07:19	243, b	S 1
	218.53	Downstream Manhole, Survey Ends 2343-0032	00:09:10	246	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2200	12	4	16	2.4	2	2.29



## Inspection report

Date: <b>20071030</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>376</b>	PSR: <b>93851</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071030</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>DODSWORTH AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0035</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2343-0036</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>207.28 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>175</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark	<b>NONE</b>
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1:525	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0035		78, b	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	5.72	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:01	80	
	8.23	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:13	81	
	10.75	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:25	82	
	12.25	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:01:40	83, b	S 3
	13.36	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:57	85	
	96.91	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:18	86	
	102.94	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:39	87	
	110.97	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:59	88, b	S 3
	117.50	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:19	90, b	S 4
	149.13	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:35	92	
	167.51	Crack Circumferential, from 07 to 11 o'clock, within 8 inch: YES	00:08:21	93, b	S 1
	168.72	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:08:42	95	
	207.28	Vermin Cockroach	00:10:10	97	M 1
	207.28	Downstream Manhole, Survey Ends 2343-0036	00:10:27	98	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2211	11	5	16	2.75	1.67	2.29



## Inspection report

Date: <b>20071030</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>383</b>	PSR: <b>93858</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071030</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>JENIFER AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0042</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2343-0043</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>183.58 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>175</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark.: **NONE**

1:450	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0042		27, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	22.60	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:01:38	29	
	23.40	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:46	30, b	S 3
	50.01	Deposits Settled Fine, 5 % of cross sectional area, from 05 to 07 o'clock, within 8 inch: YES	00:02:40	32, b	M 2
	58.65	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:13	34	
	101.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:34	35	
	107.56	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:52	36	
	146.02	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:13	37, b	S 3
	172.93	Fracture Multiple, from 06 to 09 o'clock, within 8 inch: YES	00:07:19	39, b	S 4
	183.58	Downstream Manhole, Survey Ends 2343-0043	00:08:12	42	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2300	10	6	16	3.33	2	2.67



## Inspection report

Date: <b>20071025</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>190</b>	PSR: <b>97785</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071025</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

Street: <b>BRIGHTVIEW DR</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2300-0150</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2300-0151</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>302.99 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>290</b>
Drain. Area: <b>2300</b>	Lining Method:
	Category:

Remark **NONE**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2300-0150		2292, b	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	58.85	Tap Factory Made Active, at 09 o'clock, 6" within 8 inch: YES	00:02:24	2294	
	61.36	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:40	2295	
	80.34	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:03:27	2296, b	S 4
	82.15	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:52	2298	
	84.76	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:05	2299	
	127.14	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:05:27	2300, b	S 2
	158.98	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:36	2302	
	161.49	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:52	2303	
	189.50	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:07:49	2304, b	
	196.74	Roots Fine Joint, from 01 to 05 o'clock, within 8 inch: YES	00:08:16	2306, b	
	201.96	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:42	2308	
	218.03	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:22	2309	
	239.42	Roots Fine Joint, from 09 to 01 o'clock, within 8 inch: YES	00:10:08	2310, b	
	247.05	Crack Multiple, from 07 to 03 o'clock, within 8 inch: YES	00:10:39	2312, b	S 3
	256.39	Roots Fine Joint, from 09 to 02 o'clock, within 8 inch: YES	00:11:10	2314, b	
	258.40	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:33	2316	
	267.94	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:05	2317	
	272.96	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:12:26	2318, b	S 2
	292.54	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:13:13	2320, b	
	297.87	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:42	2322	
	302.99	Downstream Manhole, Survey Ends 2300-0151	00:14:12	2324	

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



**National Plant Services**  
 1461 Harbor Avenue  
 Long Beach, CA 90813-2741  
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## Inspection report

Date: <b>20071106</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>565</b>	PSR: <b>93683</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071106</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>RIMHURST AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0132</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2343-0133</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>254.58 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>171</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark: **NONE**

1:625	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0132		154, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	36.96	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:01:39	156, b	S 2
	40.97	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:07	158	
	43.38	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:21	159	
	99.52	Fracture Multiple, from 03 to 06 o'clock, within 8 inch: YES	00:03:57	160, b	S 4
	104.04	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:17	162	
	106.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:28	163	
	141.40	Crack Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:05:34	164, b	S 3
	166.81	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:56	166	
	169.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:09	167	
	223.15	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:44	168	
	225.56	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:59	169	
	254.58	Downstream Manhole, Survey Ends 2343-0133	00:10:20	170	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	9	4	13	3	2	2.6





National Plant Services  
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## Inspection report

Date: <b>20071112</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>547</b>	PSR: <b>93768</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071112</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>BANNA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0088</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2343-TRNK</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>229.58 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>324</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark **NONE**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0088		776, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	7.63	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:00:57	778	
	16.77	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:24	779	
	56.04	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:28	780	
	82.25	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:18	781	
	118.50	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:22	782	
	146.72	Crack Longitudinal, at 09 o'clock, within 8 inch: YES	00:05:11		S 2
	147.93	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:20	783	
	166.21	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:05:56	784	S 2
	183.98	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:34	785	
	218.83	Fracture Multiple, from 09 to 12 o'clock, within 8 inch: YES	00:07:40	786, b	S 4
	229.58	Downstream Manhole, Survey Ends 2343-TRNK	00:08:30	788	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4122	2200	8	4	12	2.67	2	2.4



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## Inspection report

Date: <b>20071119</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>797</b>	PSR: <b>94224</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071119</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2342</b>

Street: <b>ARROW HY</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2342-0352</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2342-0353</b>
Location Code: <b>A Main Highway - Urban</b>	Tape/Media #: <b>1</b>	pipe length: <b>295.66 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>300</b>
Drain. Area: <b>2342</b>	Lining Method: Category:

Remark: **MH# REVERSED ON MAP**

1:725	position	observation	MPEG	photo	grade
		Upstream Manhole, Survey Begins 2342-0353		1. b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	5.22	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:01:05	3, b	
	8.34	Fracture Multiple, from 02 to 10 o'clock, within 8 inch: YES	00:01:28	5, b	S 4
	256.59	Fracture Circumferential, from 03 to 05 o'clock, within 3 inch: YES	00:08:39	7, b	S 2
	295.66	Downstream Manhole, Survey Ends 2342-0352	00:10:15	9	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2200	6	4	10	3	2	2.5



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## Inspection report

Date: <b>20071030</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>377</b>	PSR: <b>93852</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071030</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2343</b>

Street: <b>DODSWORTH AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2343-0036</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2343-0037</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>183.48 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>175</b>
Drain. Area: <b>2343</b>	Lining Method:
	Category:

Remark **NONE**

1:450	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2343-0036		99, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 of cross sectional area			M 2
	25.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:27	101	
	28.42	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:39	102	
	46.30	Crack Circumferential, from 02 to 10 o'clock, within 8 inch: YES	00:02:17	103, b	S 1
	91.39	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:47	105	
	100.63	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:10	106	
	125.53	Fracture Multiple, from 03 to 09 o'clock, within 8 inch: YES	00:05:01	107, b	S 4
	159.38	Crack Circumferential, from 07 to 11 o'clock, within 8 inch: YES	00:06:12	109, b	S 1
	183.48	Downstream Manhole, Survey Ends 2343-0037	00:07:34	112	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4112	2200	6	4	10	2	2	2



## Inspection report

Date: <b>20071101</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>S.NUNO</b>	section number: <b>279</b>	PSR: <b>98546</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071031</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2299</b>

Street: <b>ROCKVALE AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2299-0041</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2299-0042</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>217.75 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>254</b>
Drain. Area: <b>2299</b>	Lining Method:
	Category:

Remark:: **MH # REVERSED ON MAP**

1.550	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2299-0042		268	
	0.00	Water Level, 10 % of cross sectional area			M 2
	0.00	Water Mark, 15 % of cross sectional area			M 2
	7.70	Fracture Multiple, from 06 to 10 o'clock, within 8 inch: YES	00:02:03	269, b	S 4
	39.70	Tap Factory Made Active, at 02 o'clock, 6" within 8 inch: YES	00:03:28	271	
	60.04	Deposits Attached Encrustation, 3 % of cross sectional area, from 10 to 02 o'clock, within 8 inch: YES	00:04:21	272, b	M 2
	73.37	Tap Factory Made Active, at 02 o'clock, 6" within 8 inch: YES, Remark: Roots	00:05:18	274	
	101.22	Tap Factory Made Active, at 10 o'clock, 6" within 8 inch: YES	00:06:26	275	
	155.14	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES	00:08:17	276	
	157.61	Tap Factory Made Active, at 02 o'clock, 6", within 8 inch: YES	00:08:44		
	206.10	Tap Factory Made Active, at 10 o'clock, 6" within 8 inch: NO	00:10:23	277	
	213.70	Tap Factory Made Active, at 02 o'clock, 6" within 8 inch: YES	00:10:56	278	
	217.75	Downstream Manhole, Survey Ends 2299-0041	00:11:53	280	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2300	4	6	10	4	2	2.5



## Inspection report

Date: <b>20071025</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>200</b>	PSR: <b>97795</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>20071025</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

Street: <b>DE LAY AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2300-0159</b>
City: <b>ZLAE</b>	Year Renewed:	End MH: <b>2300-0171</b>
Location Code: <b>C Light Highway</b>	Tape/Media #: <b>1</b>	pipe length: <b>307.31 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>318</b>
Drain. Area: <b>2300</b>	Lining Method:
	Category:

Remark **NONE**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2300-0159		2448, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	37.86	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:01:59	2450	
	116.80	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:04:28	2451	
	195.73	Tap Factory Made Active, at 03 o'clock, 6" within 8 inch: YES	00:06:51	2452	
	303.99	Fracture Multiple, from 12 to 07 o'clock, within 8 inch: YES	00:10:31	2453, b	S 4
	307.31	Downstream Manhole, Survey Ends 2300-0171	00:11:20	2456	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67





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## Inspection report

Date: <b>20071102</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>353</b>	PSR: <b>97803</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>22071102</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

Street: <b>ZLAE</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2300-0167</b>
City: <b>ZLAE</b>	Year Renewed	End MH: <b>2300-0168</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #: <b>1</b>	pipe length: <b>344.06 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>350</b>
Drain. Area: <b>2300</b>	Lining Method:
	Category:

Remark: **MH # REVERSED ON MAP**

1:561	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2300-0168		735, b	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	4.92	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:08	737	
	6.83	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:22	738	
	9.44	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:34	739	
	11.45	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:45	740	
	14.06	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:59	741	
	21.99	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:21	742	
	24.30	Fracture Multiple, from 02 to 08 o'clock, within 8 inch: YES	00:02:38	743, b	S 4
	56.84	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:03:51	745	
	59.35	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:05	746	
	72.61	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:46	747	
	75.22	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:01	748	
	109.87	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:06	749	
	112.48	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:22	750	
	125.73	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:58	751	
	149.74	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:41	752	
	168.62	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:21	753	
	176.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:41	754	
	189.71	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:10	755	
	203.06	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:40	756	
	221.84	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:19	757	
	224.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:32	758	



## Inspection report

Date: <b>20071102</b>	P.O.#: <b>Y0TV0708F</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>353</b>	PSR: <b>97803</b>
Total Pipe Length:	Survey Customer: <b>LACDPW</b>	System Owner: <b>ZLAE</b>	Clean Date: <b>22071102</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2300</b>

1:561	position	observation	MPEG	photo	grade
	243.13	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:19	759	
	256.49	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:49	760	
	280.69	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:12:35	761	
	293.95	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:09	762	
	307.41	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:13:38		
	315.04	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:57	763	
	333.82	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:35	764	
	344.06	Downstream Manhole, Survey Ends 2300-0167	00:15:20	766	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67

## ENCLOSURE 5:

### CCTV Sewer Inspection Project Schedule

# Unincorporated East Yard

# CCTV PROJECT SCHEDULE

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>
2005-2006	Y0TV0506D	49,010
2005-2006	Y0TV0506E	159,262
2007-2008	Y0TV0708E	2,354
2007-2008	Y0TV0708F	195,437
2008-2009	Y0TV0809A	213,947
2008-2009	Y0TV0809C	301,513
2009-2010	5_22	224,563
2009-2010	Y0TV0910A	1,675
2010-2011	1_1	265,708
2010-2011	1_21	81,262
2010-2011	4_5	167,551
2011-2012	1_9	108,759
2011-2012	5_24	280,068
2011-2012	5_25	93,928
2011-2012	5_27	38,235
2011-2012	5_30	33,816
2012-2013	1_2	212,358

# Unincorporated East Yard

## FISCAL YEAR

2013-2014

2013-2014

2013-2014

2014-2015

2014-2015

2015-2016

2015-2016

# CCTV PROJECT SCHEDULE

## PROJECT NAME

1\_3

1\_4

4\_6

1\_13

1\_6

1\_20

5\_29

## LENGTH (FT)

303,036

109,207

304,300

295,213

141,202

347

42,526

**TOTAL (FT): 3,625,277**

**TOTAL (MILES) 687**