

November 21, 2016

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 County of Los Angeles Department of 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 Central 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.

CK:

Attach.

bc: RS, FV, File (Y0TV1011B)

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

PROJECT NAME:	Y0TV1011B	PROJECT MGR:	Hanna Kebede
PROJECT DATE:	02/14/11	CONTACT NO:	(626) 300-4686
SUP. DISTRICT(s):	1 & 4	MAP PAGE(S):	1860,1861,1914,1915
Report By:	Clement Khong	Report Date:	11/18/16

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the condition assessment of 288,072 feet or 17 percent of the unincorporated County's sewer system maintained by the District's Central Yard.

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

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

The District has now completed the condition assessment of 818,287 feet of the unincorporated County's sewer system maintained by the District's Central Yard. Previous Condition Assessment Reports dated September 3, 2008, June 3, 2009, March 4, 2011, and March 4, 2011 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. Y0TV1011B included sewer lines located in the unincorporated County and the Cities of Lakewood, Pico Rivera, and Santa Fe Springs. 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 76.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 23.8 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.

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

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	183,426	63.7	766
2: Minor to Moderate	35,947	12.5	146
3: Moderate	35,636	12.4	136
4: Significant	30,501	10.6	126
5: Most Significant	2,562	0.8	11
TOTAL	288,072	100.0	1,185

Lateral Notices

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

High Water Levels

Our inspection revealed that approximately 96.9 percent of the system televised has adequate capacity. Approximately 3.1 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 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 segments in the unincorporated County's system.

STRUCTURAL REPORT

Our inspection revealed that approximately 95 percent of the inspected pipe segments within unincorporated County were free of severe structural defects. However, the remaining 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 on page 4. These segments have been placed on a priority list based on the severity and the need for action. For items 1 through 65 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. A map showing the sewer lines, which need lining and point repairs, is also provided in Enclosure 3.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	221,893	77	908
2: Minor to Moderate	22,325	7.7	92
3: Moderate	29,718	10.3	119
4: Significant	6,493	2.3	30
5: Most Significant	7,643	2.7	36
TOTAL	288,072	100.0	1,185

CONDITION ASSESSMENT PROJECTS

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

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506A	34,270	2.0	COMPLETED
2006-2007	Y0TV0607C	9,475	0.6	COMPLETED
2007-2008	Y0TV0708B	253,485	14.7	COMPLETED
2008-2009	Y0TV0809B	5,167	0.3	COMPLETED
2009-2010	Y0TV0910B	227,918	13.2	REPORT PENDING
2010-2011	Y0TV1011B	288,072	16.7	COMPLETED
2011-2012	Y0TV1112A	647,361	37.5	REPORT PENDING
2013-2014	Y0TV1314B1	243,563	14.1	REPORT PENDING
2013-2014	Y0TV1314B2	15,590	0.9	REPORT PENDING
TOTAL		1,724,801	100.0	

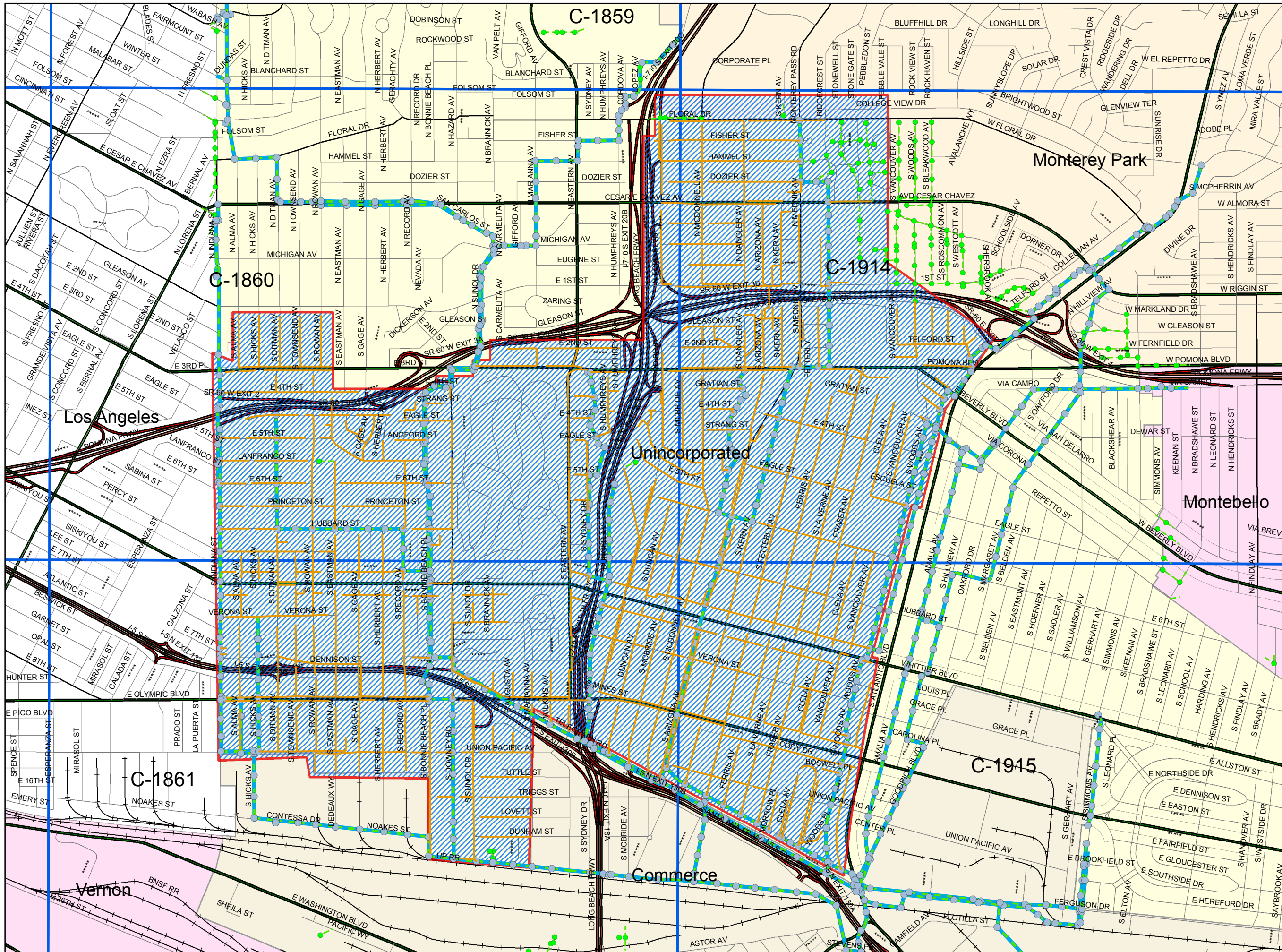
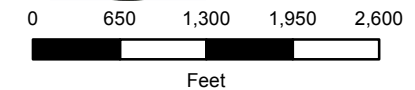
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP

CCTV PROJECT Y0TV1011B

COUNTY UNINCORPORATED



Legend

- SMD Sanitary Sewers**
 - SMD Sanitary Sewers
- 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**
- CCTV PROJECT AREA**

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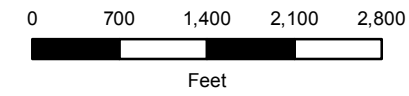
ENCLOSURE 2:

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

ENCLOSURE 2 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

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

SMD Manholes

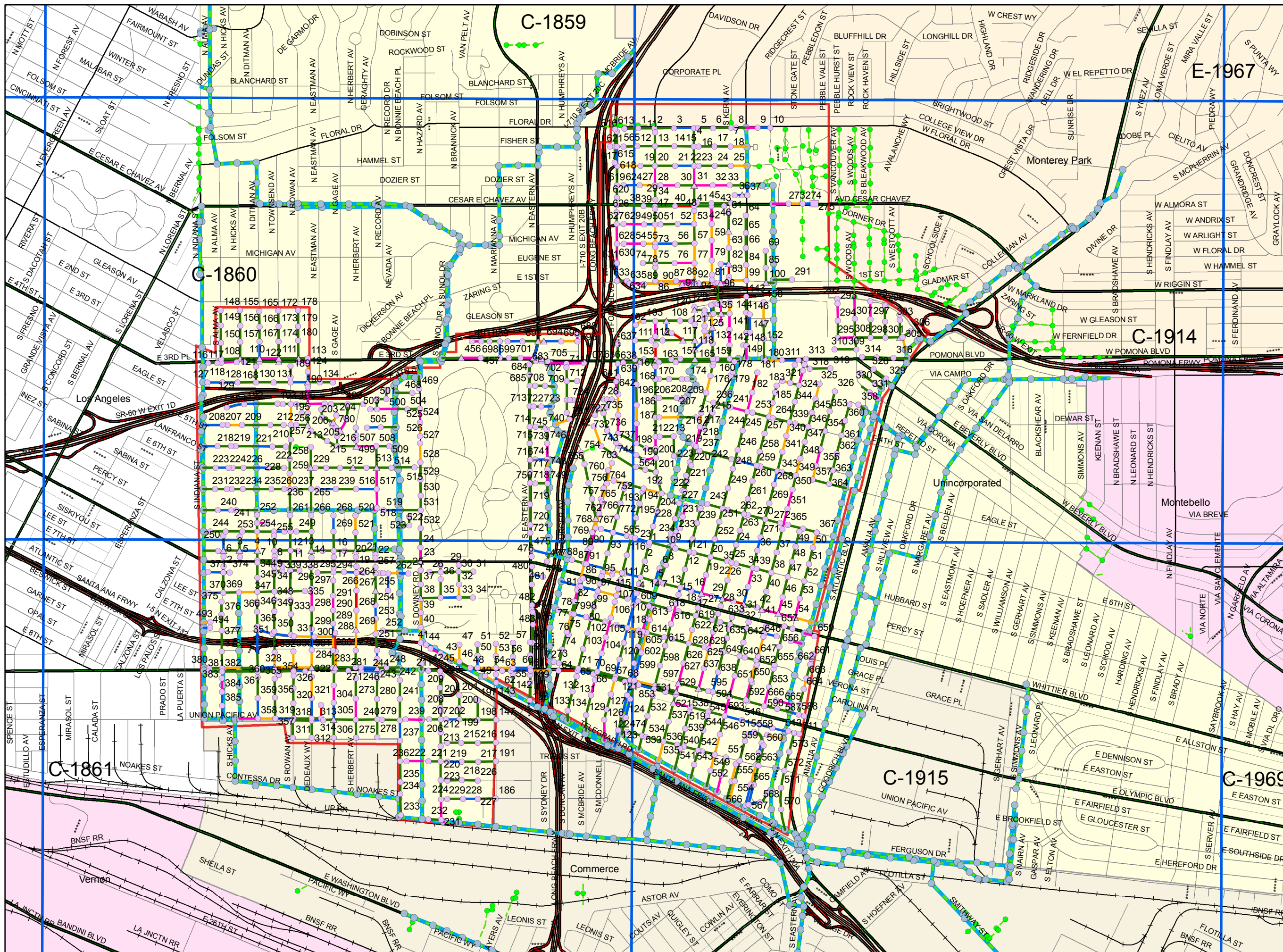
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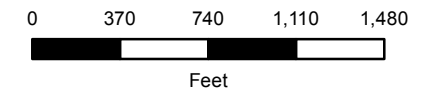
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ENCLOSURE 2 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING
(QMR)



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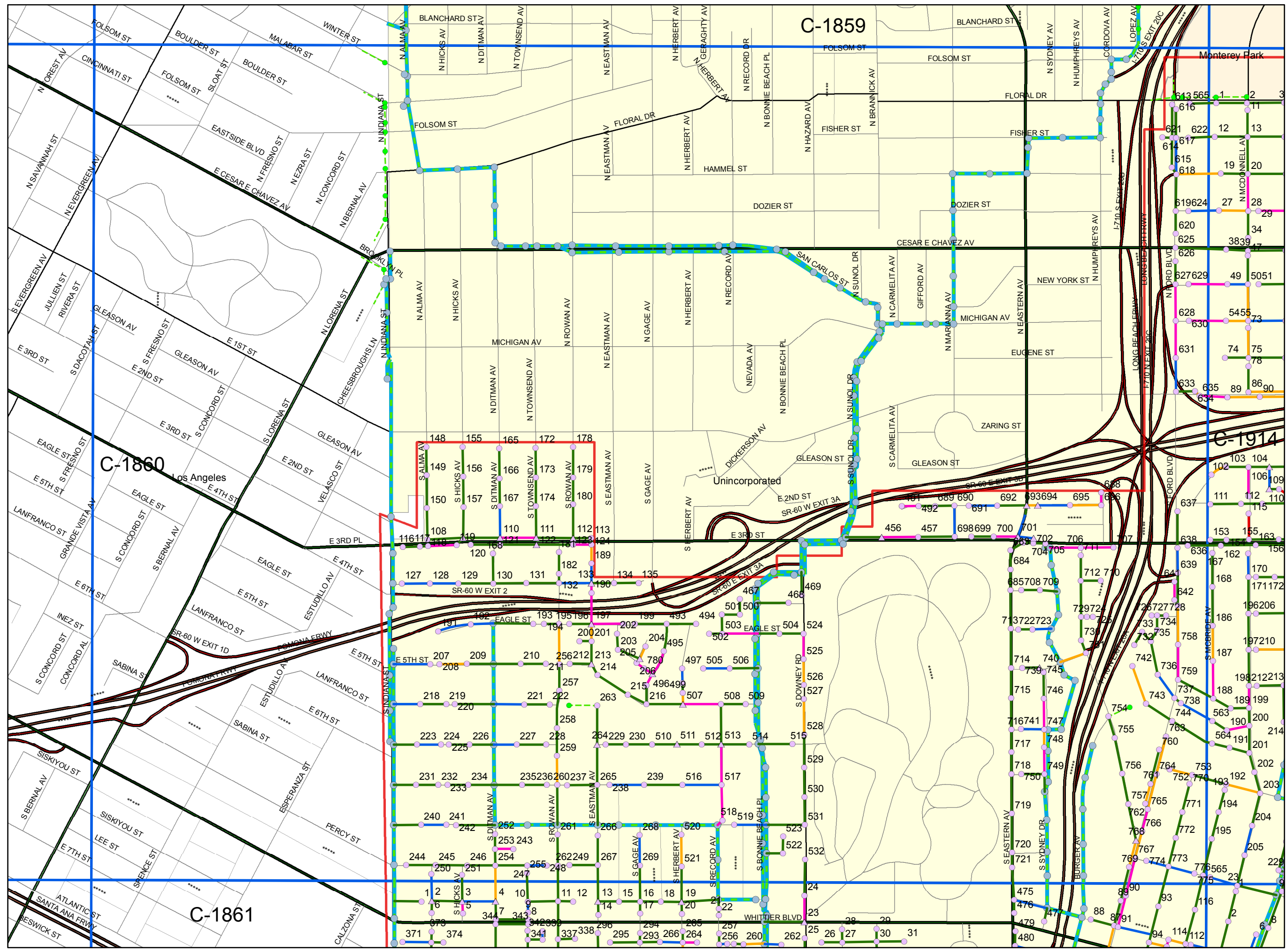
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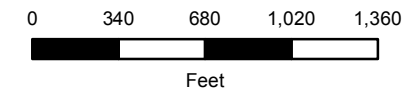
February 2015



ENCLOSURE 2 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK
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RATING
(QMR)



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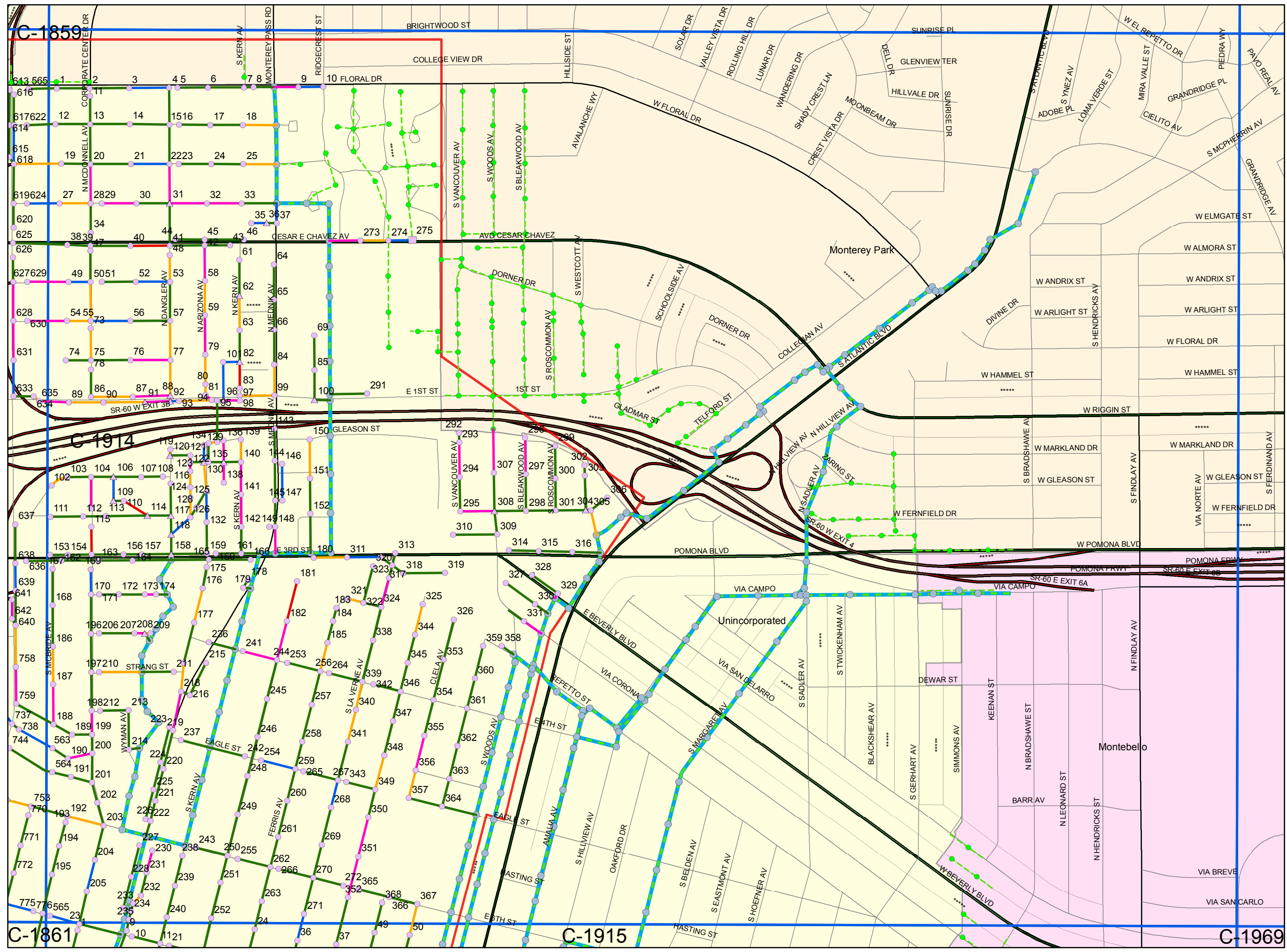
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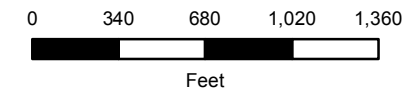
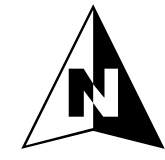
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ENCLOSURE 2 CCTV PROJECT YOTV1011B

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QUICK
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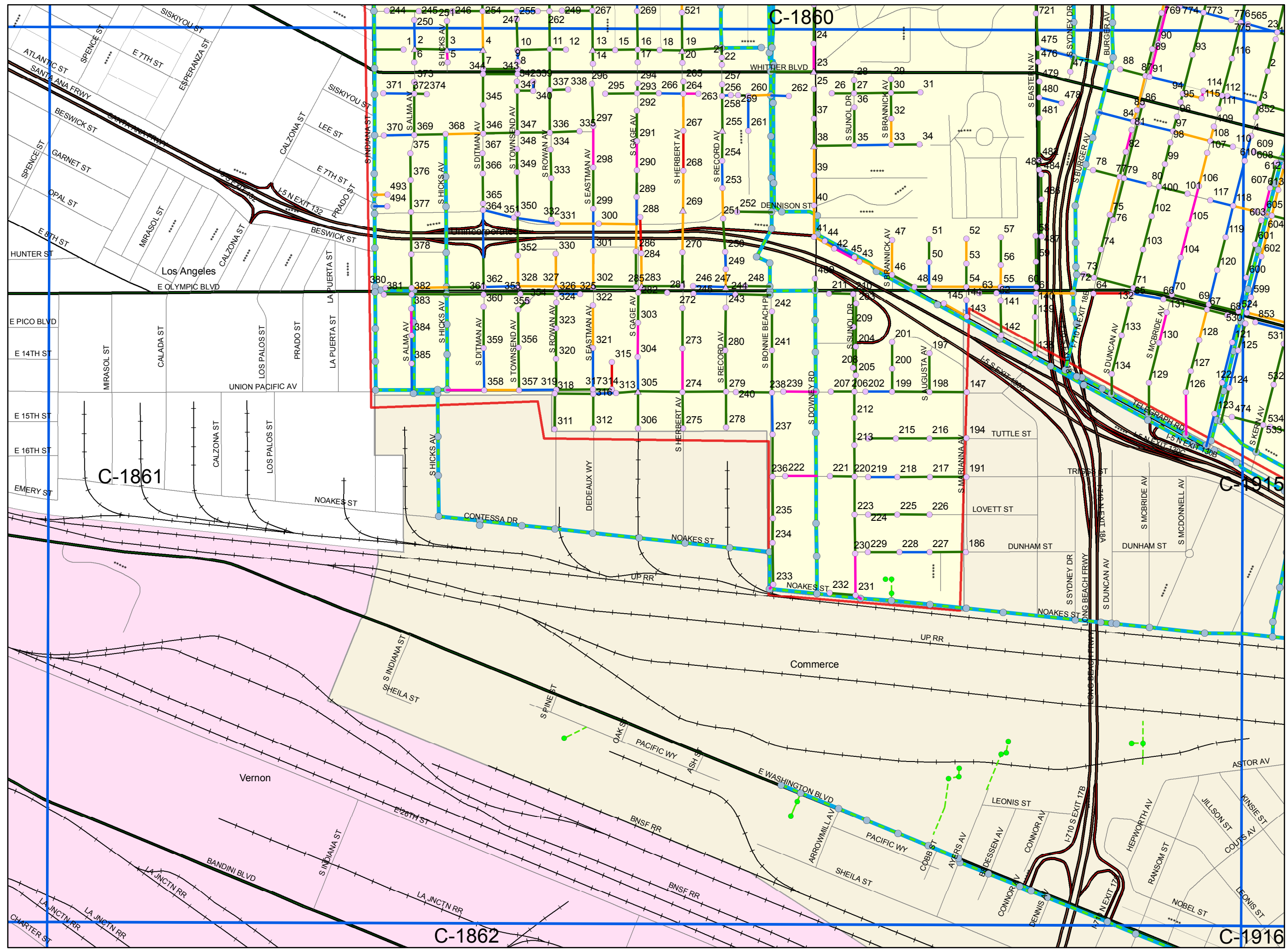
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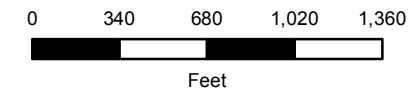
C-1862

C-1916

ENCLOSURE 2 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK
MAINTENANCE
RATING
(QMR)



Legend

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SMD Manholes

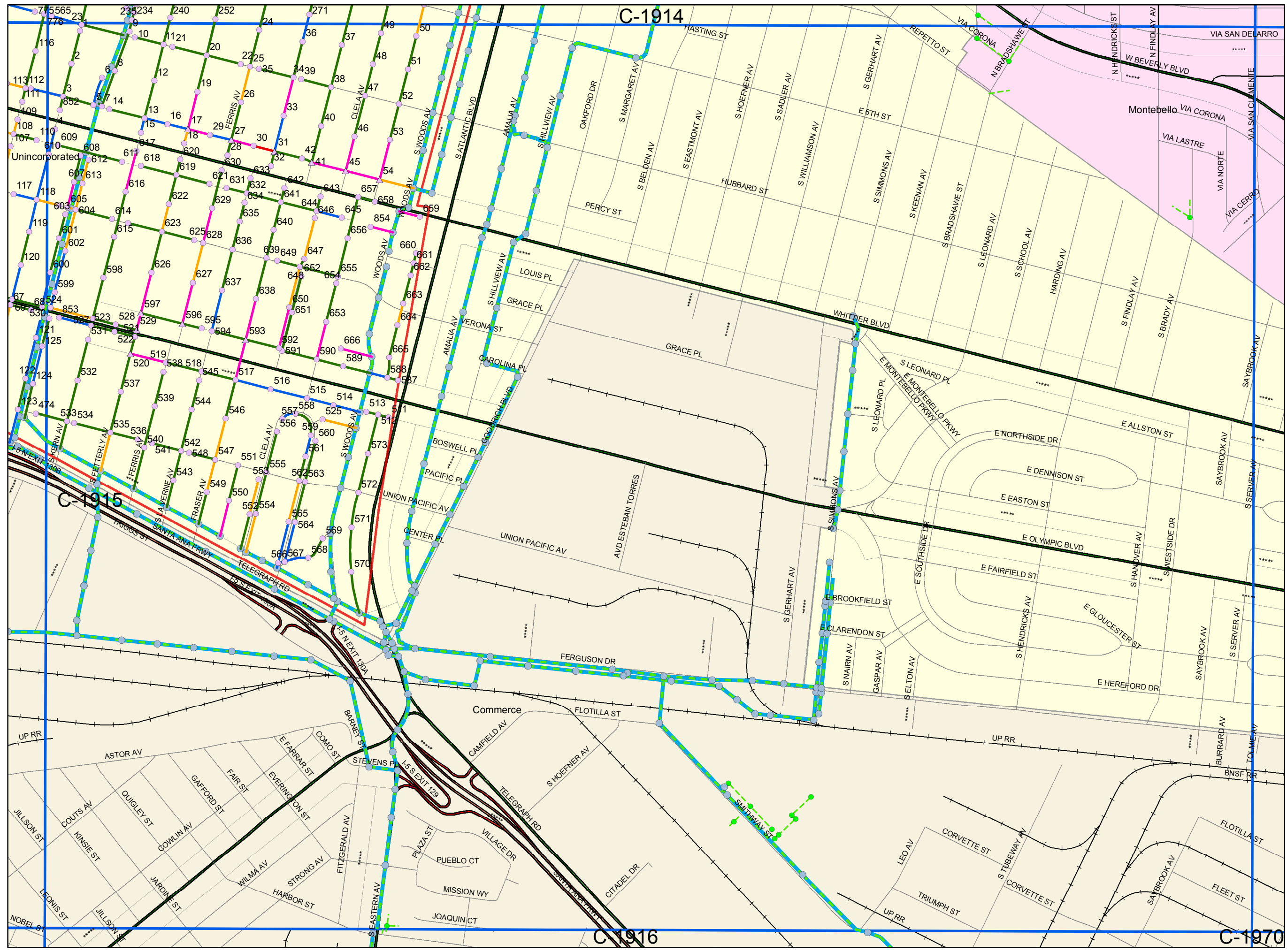
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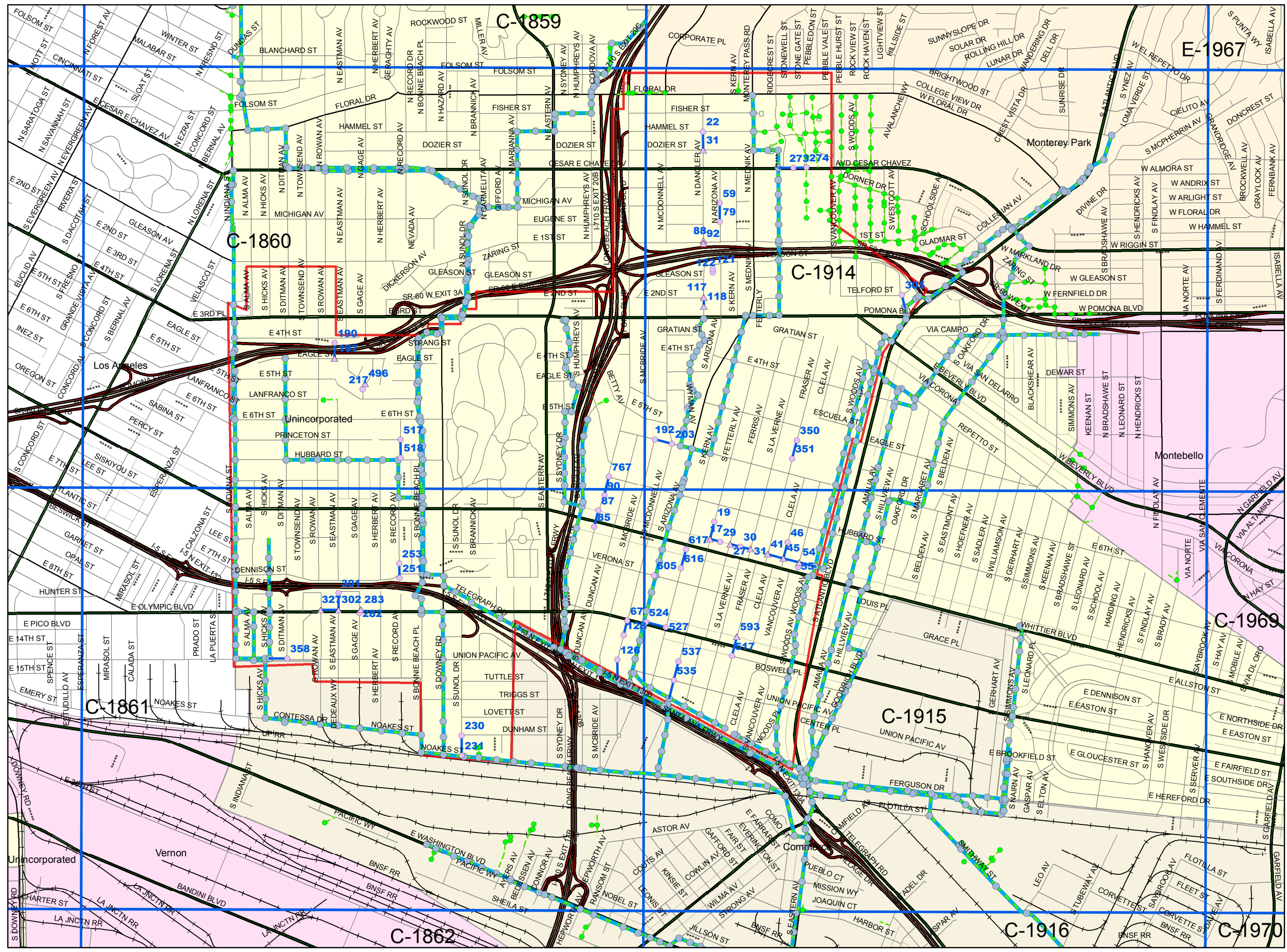
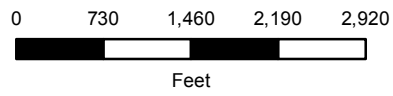
**ENCLOSURE 2
HIGH WATER LEVELS
UNINCORPORATED COUNTY (Y0TV1011B)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION (length of sag)
1	413E	1914-0022	1914-0031	DANGLER AV	High water level; sag (5')
2	3A11	1914-0305	1914-TRNK	EASEMENT	High water level; sag (20')
3	4333	1914-0350	1914-0351	FRASER AV	Sag (42')
4	4123	1915-0019	1915-0017	FETTERLY AV	Sag (10')
5	4131	1914-0059	1914-0079	ARIZONA AV	Water mark (55%)
6	4128	1914-0088	1914-0092	1ST ST	Water mark (50%)
7	4400	1914-0118B	1914-0118	DANGLER AV	Camera underwater; high water level
8	3221	1914-0192	1914-0203	6TH ST	Water mark (55%)
9	4231	1860-0767	1861-0090	FORD BV	Water mark (60%)
10	3211	1915-0605	1915-TRNK	ARIZONA AV	Water mark (65%)
11	5100	1914-0121	1914-0122	EASEMENT	Water mark (50%)
12	4227	1915-0617	1915-0616	KERN AV	Water mark (55%)
13	4100	1860-0217	1860-0496	GAGE AV	Water mark (55%)
14	311A	1861-0253	1861-0251	RECORD AV	Water mark (50%)
15	4112	1861-0283	1861-0282	OLYMPIC BV	Water mark (50%)
16	4121	1915-0046	1915-0045	CLELA AV	Water mark (50%)
17	412G	1915-0017	1915-0029	ALLEY	Water mark (55%)
18	472C	1915-0027	1915-0030	ALLEY	High water level
19	4115	1915-0041	1915-0045	ALLEY	Water mark (55%)
20	4112	1915-0045	1915-0054	ALLEY	Water mark (55%)
21	3113	1915-0054	1915-TRNK	ALLEY	Water mark (50%)
22	332A	1861-0054	1861-0055	OLYMPIC BV	Water mark (50%)
23	3224	1861-0301	1861-0302	EASTMAN AV	Water mark (80%)
24	3D15	1861-0302	1861-0327	OLYMPIC BV	Water mark (55%)
25	3111	1861-0087	1861-0085	FORD BV	High water level; sag (109')
26	3G2G	1915-0527	1915-0524	OLYMPIC BV	High water level; sag (150')
27	4335	1861-0358	1861-TRNK	UNION PACIFIC AV	High water level
28	3100	1861-0067	1861-0128	MC DONNELL AV	High water level; sag (63')
29	4536	1861-0126	1861-TRNK	MC DONNELL AV	High water level
30	3F11	1915-0537	1915-0535	FETTERLY AV	High water level; sag (32')
31	3300	1915-0535	1915-TRNK	FETTERLY AV	Sag (58')
32	452E	1915-0593	1915-0517	FRASER AV	High water level; water mark (60%)
33	4121	1861-0230	1861-0231	SUNOL DR	High water level
34	4A21	1860-0190	1860-0197	EASEMENT	High water level; sag (46')
35	3921	1914-0274	1914-0273	CESAR CHAVEZ AV	High water level; sag (46')
36	4E2J	1914-0273	1914-TRNK	CESAR CHAVEZ AV	High water level; sag (35')
37	4211	1860-0517	1860-0518	RECORD AV	High water level; sag (85')

ENCLOSURE 2 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

HIGH WATER LEVEL



Legend

- HIGH WATER LEVEL
- SMD Manholes**
 - Other
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
 - SMD Pump Stations
 - SMD Treatment Plants
- Manhole Type**
 - Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Non SMD Maintained MH
 - SMD Operations Maps
 - CCTV PROJECT AREA

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February 2015



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

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

(DATE)

IN REPLY PLEASE

REFER TO FILE:

SM-1

Mr./Ms. (NAME)
(ADDRESS)

Dear Ms. (LAST NAME):

SEWER LATERAL ROOT INTRUSION

The County of Los Angeles Consolidated Sewer Maintenance District is responsible for the maintenance of the sanitary sewer system in your area. We recently televised the sewer mainline and discovered roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing an overflow upstream of your property. You are hereby requested to perform maintenance on the private sewer lateral serving the property located at 4474 El Prieto Road, Altadena, California 91001.

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

As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a licensed plumber to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

Your licensed plumber is required to protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection. Prior to your plumber cleaning your lateral, please notify the District's sewer maintenance yard in your area at (626) 446-5227 to arrange for authorization to access the downstream manhole.

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

If your sewer lateral has been cleaned after the date on the enclosed photos, no further action is necessary. After your lateral has been serviced, please notify Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or fvillaluna@dpw.lacounty.gov.

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

Very truly yours,

GAIL FARBER
Director of Public Works

WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

XXXXXX

Enc.

File (Lateral)

XXXXX

Roots at Lateral Connection



ENCLOSURE 3:

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

**ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
UNINCORPORATED COUNTY - CENTRAL YARD (Y0TV1011B)**

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	5100	1914-TRNK	1914-0236	4TH ST	Hole (uncut lateral): 108' (lined concrete)	Structural integrity in tact. No action needed.	
2	5100	1915-0017	1915-0018	FETTERLY AV	Hole: 67' (concrete pipe); protruding lateral: 90'	Point Repair (core saw protruding lateral): 90'; Lining: MH to MH	92
3	5121	1861-0080	1861-0079	VERONA ST	Broken: 6' (concrete pipe)	Lining: MH to MH	202
4	5143	1861-0134	1861-TRNK	DUNCAN AV	Fractures: 18', 44', 80' (concrete pipe)	Lining: MH to MH	198
5	5112	1914-0082	1914-0083	KERN ST	Joint offset: 179'	Structural integrity in tact. No action needed.	
6	4121	1860-0712	1860-0729	HUMPHREYS AV	Fracture: 264' (concrete pipe)	Lining: MH to MH	315
7	513A	1860-0627	1860-0628	FORD BV	Broken/fractures: multiple locations (concrete pipe)	Lining: MH to MH	331
8	4K32	1860-0628	1860-0631	FORD BV	Fractures: 83', 103'; surface aggregate visible throughout (concrete)	Lining: MH to MH	333
9	4L00	1860-0631	1860-0633	FORD BV	Surface aggregate visible throughout (concrete pipe)	Lining: MH to MH	331
10	513D	1914-0093	1914-0094	1ST ST	Hole: 11', fractures: 197', 204', 221'	Lining: MH to MH	278
11	4131	1914-0084	1914-0099	MEDNIK AV	Fractures: 157', 282' (concrete pipe)	Lining: MH to MH	282
12	4100	1914-0098	1914-0099	1ST ST	Fractures: 279'	Structural integrity in tact. No action needed.	
13	4131	1914-0097	1914-0096	1ST ST	Broken: 155'	Point Repair	
14	5122	1914-0111	1914-0112	2ND ST	Fractures: 15', 175'	Structural integrity in tact. No action needed.	
15	5241	1914-0114	1914-0113	2ND ST	Broken: 2'	Structural integrity in tact. No action needed.	
16	5100	1914-0170	1914-0169	MC DONNELL AV	Hole (insided lateral): 14' (lined concrete pipe)	Structural integrity in tact. No action needed.	
17	4100	1914-0196	1914-0197	MC DONNELL AV	Wrinkled liner: 324'	Structural integrity in tact. No action needed.	
18	4100	1914-0143	1914-0144	MEDNIK AV	Wrinkled liner: 123'	Structural integrity in tact. No action needed.	
19	4131	1914-0144	1914-0145	MEDNIK AV	Wrinkled liner: 134'	Structural integrity in tact. No action needed.	
20	4933	1914-0128	1914-0126	EASEMENT	Fractures: 3'-38', 62'-83'	Lining: MH to MH	
21	5200	1914-0206	1914-0207	4TH ST	Broken: 242'	Structural integrity in tact. No action needed.	
22	5241	1914-0155	1914-0115	MC DONNELL AV	Broken/fractures: 1'; material change	Central Yard to clean and retelevise	
23	5200	1914-0162	1860-0636	3RD ST	Broken: 80'	Structural integrity in tact. No action needed.	
24	5100	1914-0165	1914-0166	3RD ST	Hole (repair patch): 310'	Structural integrity in tact. No action needed.	
25	4100	1914-0221	1914-0222	ARIZONA AV	Defective liner: 140'	Structural integrity in tact. No action needed.	
26	5100	1914-0227	1914-0228	ARIZONA AV	Broken: 261'	Structural integrity in tact. No action needed.	
27	4100	1915-0610	1861-0118	MC DONNELL AV	Fracture: 160'	Structural integrity in tact. No action needed.	
28	5200	1861-0119	1861-0120	MCDONNELL AV	Fracture: 193' (concrete pipe)	Lining: MH to MH	283
29	4100	1860-0768	1860-0769	FORD BV	Deformed liner: 273'	Structural integrity in tact. No action needed.	

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
UNINCORPORATED COUNTY - CENTRAL YARD (Y0TV1011B)

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
30	4333	1861-0104	1861-0070	MCBRIDE AV	Deformed: 93' (concrete pipe)	Lining: MH to MH	323
31	5112	1914-0140	1914-0137	EASEMENT	Broken: 156'	Structural integrity in tact. No action needed.	
32	413A	1861-0103	1861-0071	DUNCAN AV	Fractures: 1', 20', 93' (concrete pipe)	Lining: MH to MH	291
33	514A	1861-0085	1861-0084	FORD BV	Fractures: 19', 29' (concrete pipe)	Lining: MH to MH	78
34	4100	1861-0087	1861-0088	ALLEY	Deformed (liner): 3'	Structural integrity in tact. No action needed.	
35	4D3L	1861-0084	1861-TRNK	ALLEY	Fractures: 3', 201', 294' (concrete pipe)	Lining: MH to MH	296
36	5121	1915-0600	1861-0492	ARIZONA AV	Broken: 38'	Structural integrity in tact. No action needed.	
37	4132	1914-0123	1914-0122	EASEMENT	Fractures: 88', 94'	Structural integrity in tact. No action needed.	
38	4538	1914-0124	1914-0125	EASEMENT	Fractures: 63', 115'-136'; deformed: 124'-140'	Lining: MH to MH	142
39	4100	1860-0738	1914-0563	EASEMENT	Defective liner: 9'	Structural integrity in tact. No action needed.	
40	5241	1860-0124	1860-0189	EASEMENT	Broken/deformed chimney: 130' (concrete pipe)	Point repair; Lining: MH to MH	
41	413C	1860-0189	1860-0133	EASEMENT	Fractures: 5', 40', 53', 68', 77' (concrete pipe)	Lining: MH to MH	211
42	4131	1861-0101	1861-0100	VERONA ST	Fractures: 10', 22' (concrete pipe)	Lining: MH to MH	222
43	4100	1861-0317	1861-0319	UNION PACIFIC AV	Hole: 230' (concrete pipe)	Lining: MH to MH	297
44	413A	1861-0314	1861-0315	EASEMENT	Fracture: 27'; protruding lateral: 59'	Point repair (core saw protruding lateral): 59'; Lining: MH to MH	227
		1861-0315	1861-0314		Deformed: 32' (concrete pipe)		
45	4237	1861-0357	1861-0358	UNION PACIFIC AV	Fractures: 265' (concrete pipe)	Lining: MH to MH	294
46	4336	1861-0358	1861-TRNK	UNION PACIFIC AV	Fractures: 9', 34', 40' (concrete pipe)	Lining: MH to MH	314
47	5B42	1861-0264	1861-0263	ALLEY	Fractures: 49', 52' (concrete pipe)	Lining: MH to MH	264
48	5200	1914-0208	1914-0209	EASEMENT	Hole: 113' (upper end)	Point Repair	
49	5121	1861-0258	1861-0256	ALLEY	Broken (inside lateral): 28' (concrete pipe)	Lining: MH to MH	110
50	4124	1861-0246	1861-0247	OLYMPIC BV	Fractures: 60', 153', 204'	Structural integrity in tact. No action needed.	
51	5132	1915-0512	1915-0573	ALLEY	Fractures: 194', 195' (concrete pipe)	Lining: MH to MH	328
52	5100	1915-0573	1915-0572	ALLEY	Broken: 231' (concrete pipe)	Lining: MH to MH	332
53	5100	1915-0570	1915-TRNK	ALLEY	Broken: 201'; (concrete pipe)	Point repair (remove broken pipe and retelevise); Lining: MH to MH	
54	413E	1861-0305	1861-0313	UNION PACIFIC AV	Fractures: multiple locations (concrete pipe)	Lining: MH to MH	204
55	5342	1861-0313	1861-0316	UNION PACIFIC AV	Hole: 19', 21; fractures: 52' (concrete pipe)	Lining: MH to MH	188
56	5131	1861-0316	1861-0318	UNION PACIFIC AV	Hole: 94' (concrete pipe)	Point Repair: Lining: MH to MH	312
57	5131	1860-0231	1860-TRNK	PRINCETON ST	Broken: 46' (concrete pipe)	Lining: MH to MH	243

**ENCLOSURE 3
 QUICK STRUCTURAL RATING REPORT PRIORITY LIST
 UNINCORPORATED COUNTY - CENTRAL YARD (Y0TV1011B)**

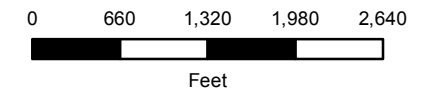
ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
58	5132	1860-0253	1860-0243	EASEMENT	Fractures: 80',143' (concrete pipe)	Lining: MH to MH	202
59	5100	1861-0340	1861-0341	EASEMENT	Hole (abandoned lateral): 73' (lined concrete pipe)	Structural integrity in tact. No action needed.	
60	5100	1860-0190	1860-0197	EASEMENT	Hole at base of MH 197	Structural integrity in tact. No action needed.	
61	4100	1860-0684	1860-0685	EASTERN AV	Broken: 2' (concrete pipe)	Lining: MH to MH	174
62	5100	1860-0723	1860-TRNK	EASEMENT	Broken: 115'; fracture: 7'	Point Repair (clean and retelevise): 115'	
63	4131	1861-0074	1861-0072	FORD BV	Fractures: 203', 211' (concrete pipe)	Lining: MH to MH	259
64	5131	1860-0707	1860-0706	3RD ST	Hole: 127', 170'	Point repair (sleeve) completed (09/23/11)	
65	5111	1914-0083	1914-0082	KERN ST	Joint seperated 101'	Structural integrity in tact. No action needed.	283

8239

ENCLOSURE 3 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers QSR

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

SMD Manholes

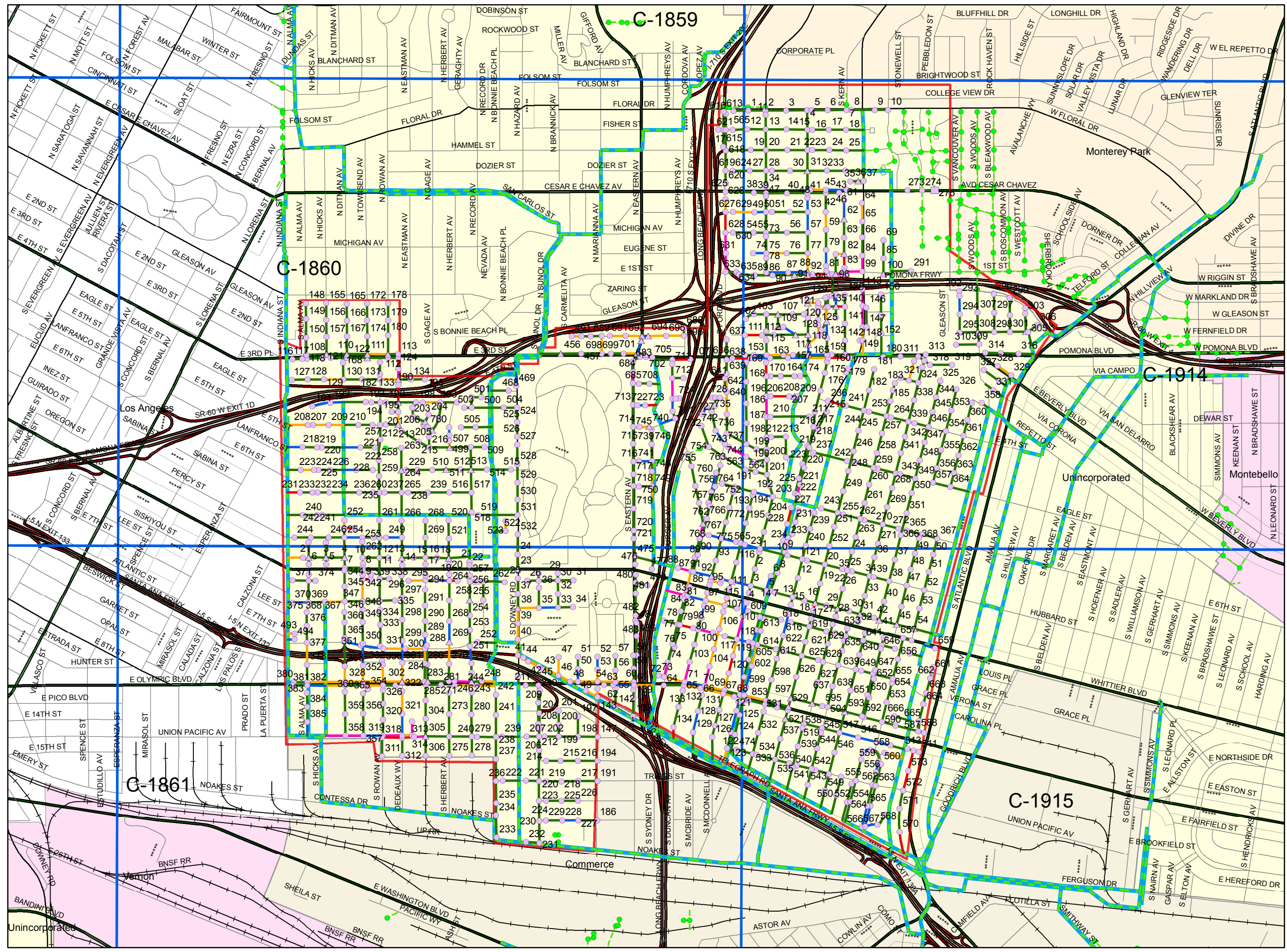
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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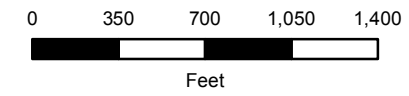
February 2015



ENCLOSURE 3 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

- QSR**
- 1: MINOR
 - 2: MINOR TO MODERATE
 - 3: MODERATE
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 - 5: MOST SIGNIFICANT

SMD Manholes

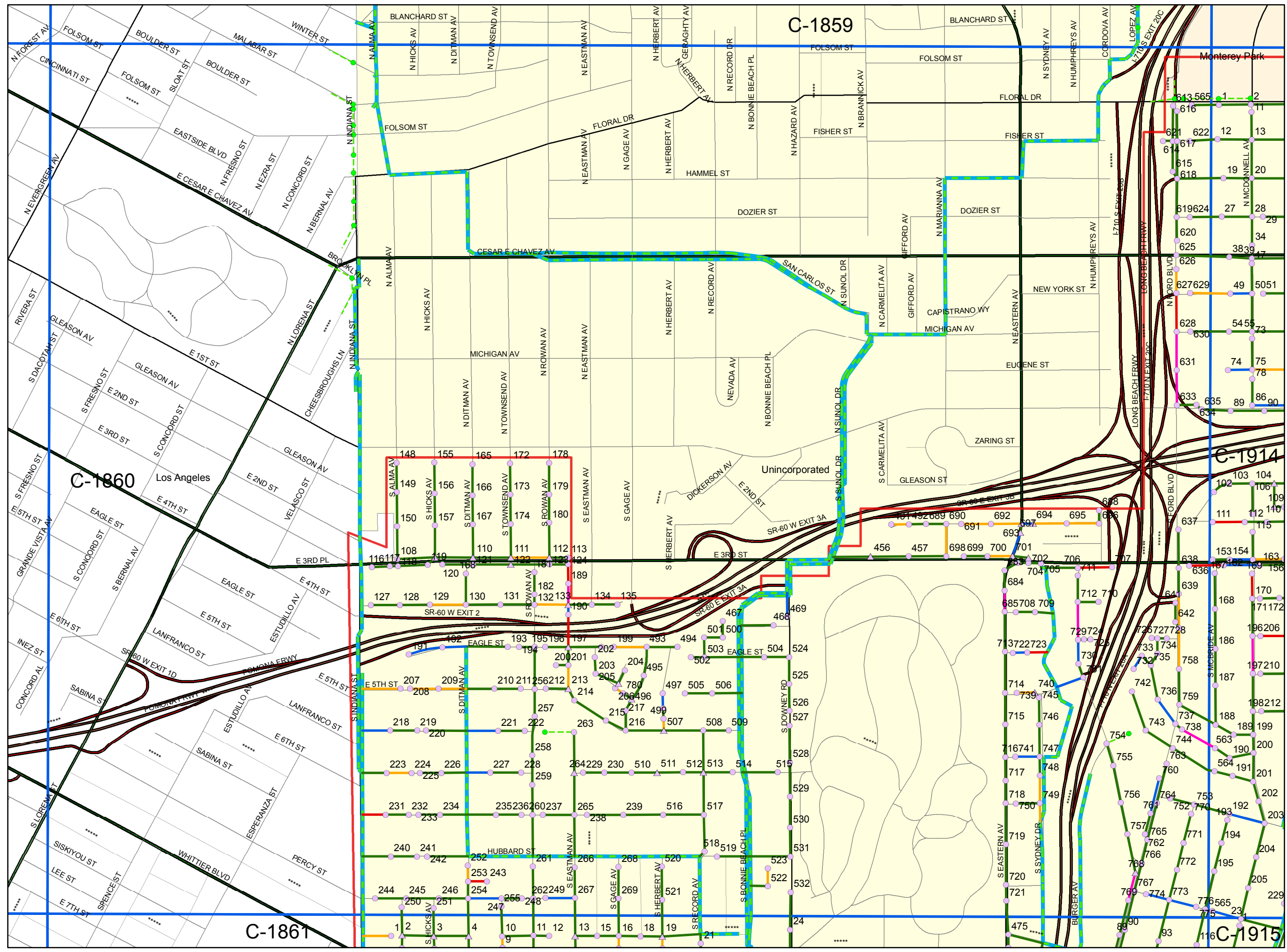
- Other
- Manhole Type**
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
- SMD Pump Stations
- SMD Treatment Plants

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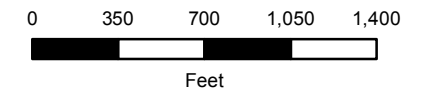
February 2015



ENCLOSURE 3 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers QSR

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SMD Manholes

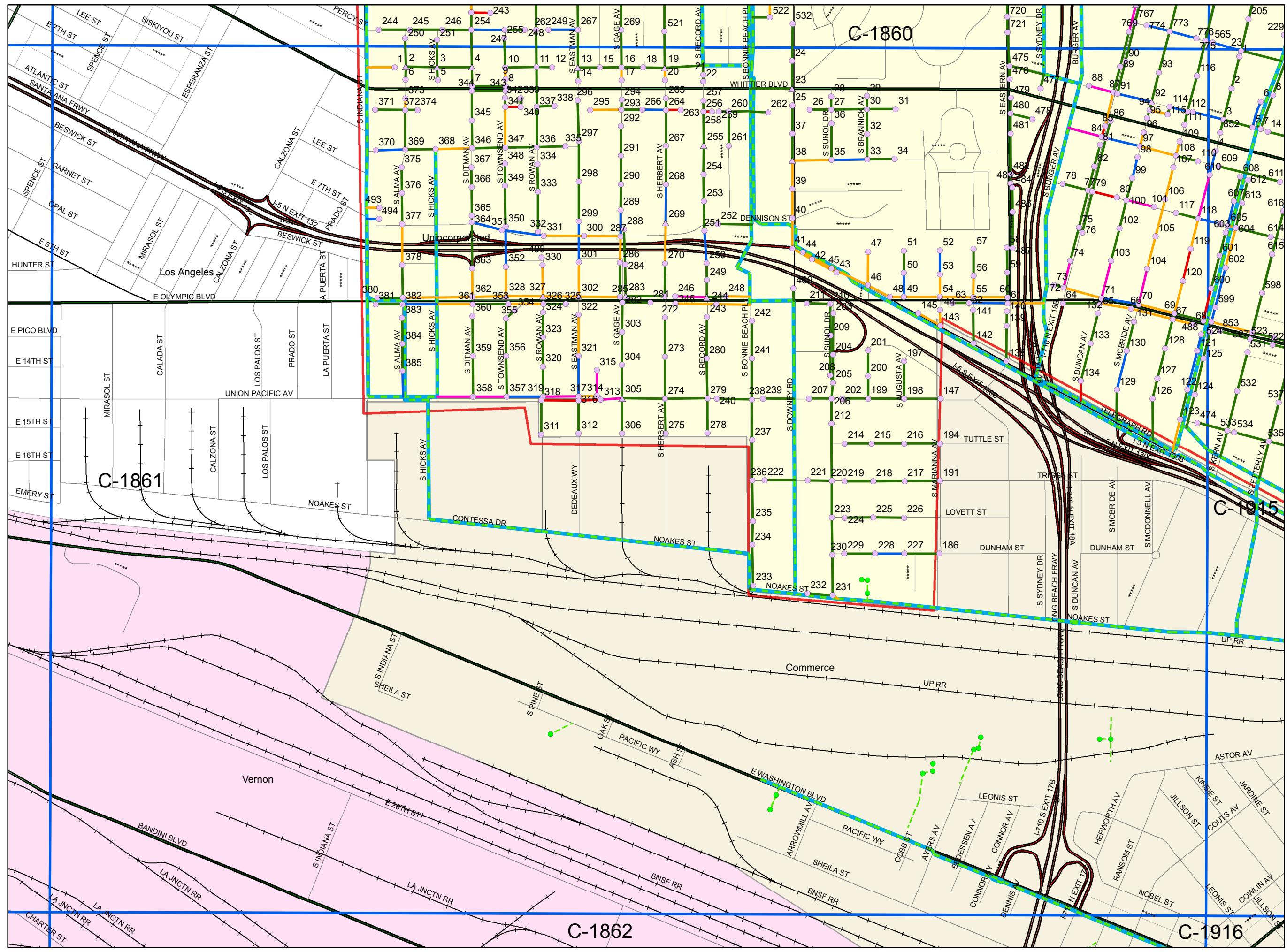
- Other
- Standard
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- Shallow
- Trap
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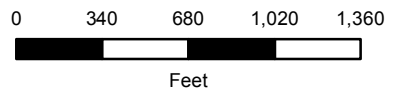
February 2015



ENCLOSURE 3 CCTV PROJECT YOTV1011B

COUNTY
UNINCORPORATED

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers QSR

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SMD Manholes

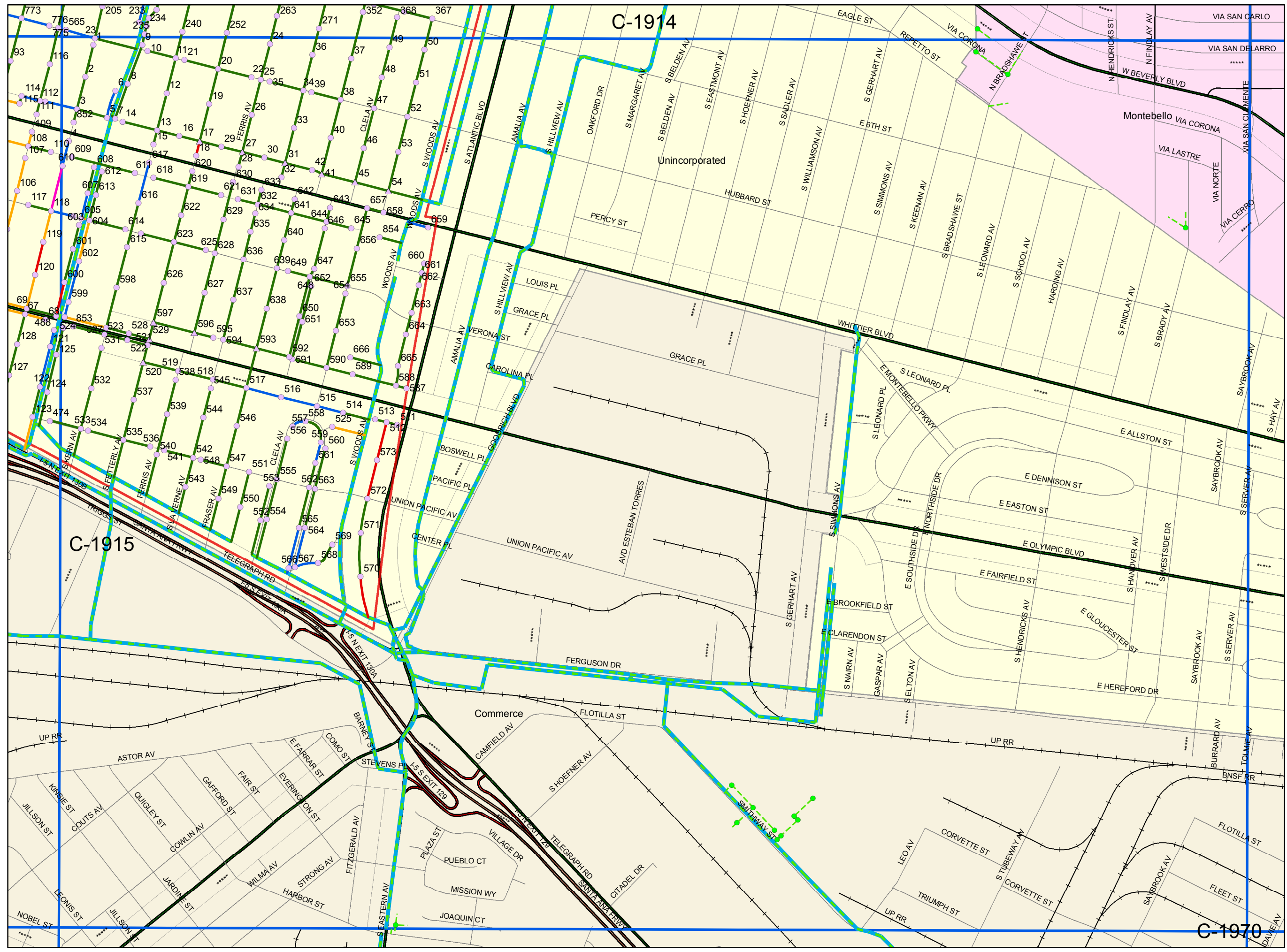
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

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- Non SMD Maintained MH
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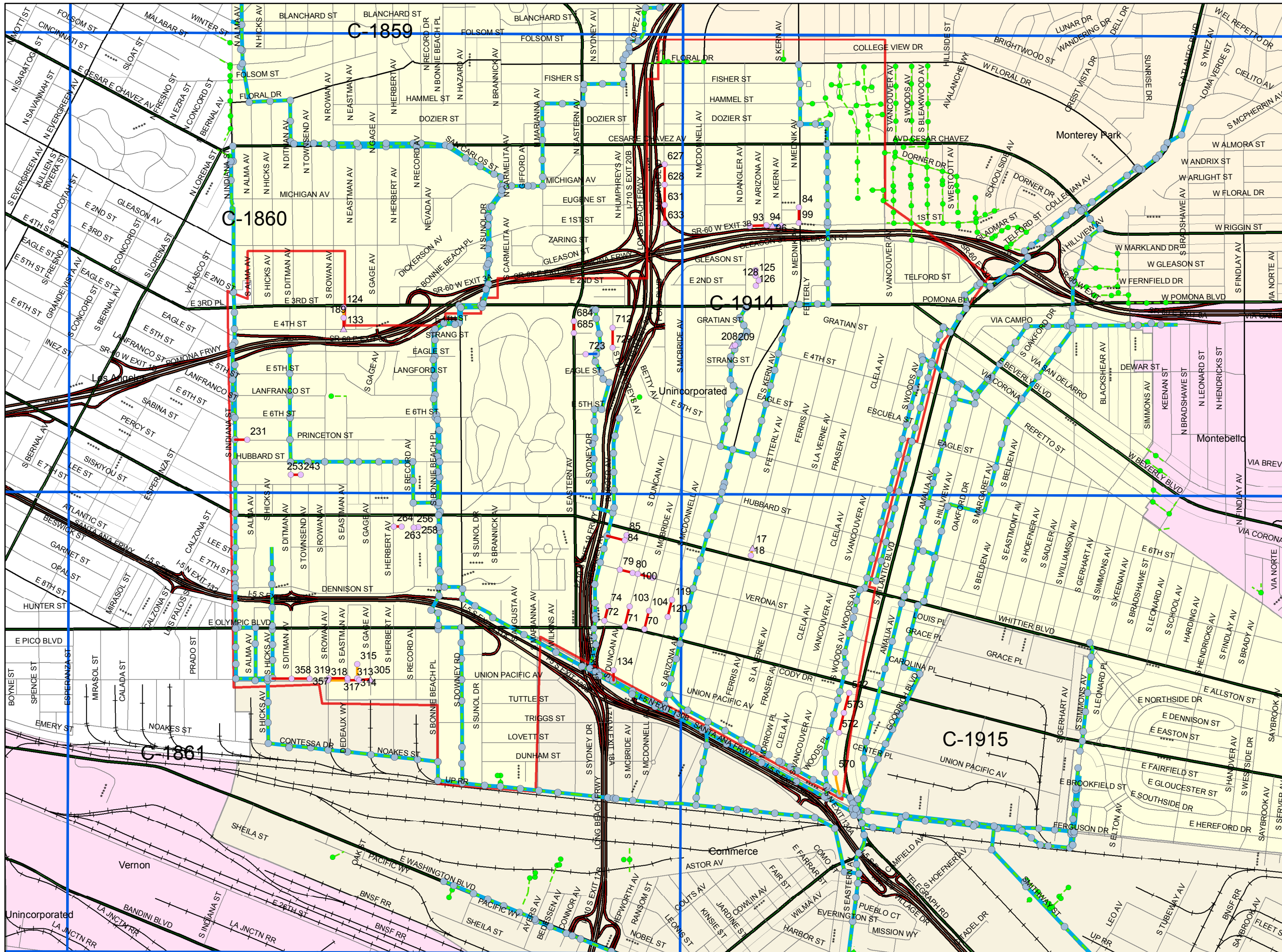
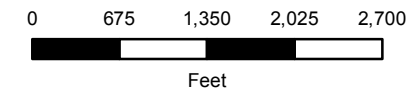
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ENCLOSURE 3 CCTV PROJECT YOTV1011B

COUNTY UNINCORPORATED LINING & POINT REPAIR PROJECTS



Legend

- Lining MH to MH
- Point Repair
- Point Repair & Lining

SMD Manholes

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

Maintained by Others:

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- Non SMD Maintained MH
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