



MARK PESTRELLA, 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

December 2, 2019

IN REPLY PLEASE
REFER TO FILE: **SM-1**

Mr. David Liu
Director of Public Works/City Engineer
City of Diamond Bar
21810 Copley Drive
Diamond Bar, CA 91765-4178

Attention Ms. Tommye Cribbins

Dear Mr. Liu:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION-ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV1415B**

This letter is to inform you that Los Angeles County Public Works Consolidated Sewer Maintenance District has completed a condition-assessment of the City of Diamond Bar's sewer system.

The enclosed Condition-Assessment Report provides details regarding the maintenance and structural condition of your sewer mainlines. Please note that two previous reports covering the balance of your system were transmitted on March 6, 2013, and June 17, 2014. The information contained in all three reports should be included in your agency's Sewer System Management Plan as a reference in Chapter 8, System Evaluation and Capacity Assurance Plan.

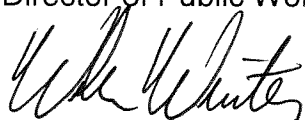
The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance schedule for continued cleaning and monitoring. In addition, segments with severe structural defects have either been repaired or will be scheduled for corrective action as part of the ongoing Accumulative Capital Outlay Program.

Mr. David Liu
December 2, 2019
Page 2

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

Very truly yours,

MARK PESTRELLA
Director of Public Works



WILLIAM J. WINTER
Assistant Deputy Director
Sewer Maintenance Division

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Enc.

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

100% SUMMARY

SUP.	4	CITY:	Diamond Bar
DISTRICT(S)			
Report By:	Eric Liu	Report Date:	08/26/2019

INTRODUCTION

As part of the Sewer Condition-Assessment Program, Los Angeles County Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television inspection of 804,259 feet or 100 percent of the City of Diamond Bar's (City) sewer system.

The closed-circuit television inspection of the City was completed in three phases (Project Nos. Y0TV0910C, Y0TV1011A, and Y0TV1415B). A copy of the Condition-Assessment Reports for Project Nos. Y0TV0910C and Y0TV1011A can be found in the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. Enclosed for your reference is the Condition-Assessment Report for Project No. Y0TV1415B.

SUMMARY MAINTENANCE REPORT

Our inspection revealed that approximately 72.7 percent of the system televised was free of significant blockages or restrictions that would impede sewer flows. The remaining 27.3 percent of the inspected pipe segments had a Pipeline Assessment and Certification Program (PACP) maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been addressed with corrective action taken as noted in the enclosed reports.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	377,420	46.9	1,744
2: Minor to Moderate	207,085	25.8	867
3: Moderate	104,099	12.9	452
4: Significant	95,832	11.9	400
5: Most Significant	19,823	2.5	87
TOTAL	804,259	100.0	3,550

SUMMARY STRUCTURAL REPORT

Our inspection revealed that approximately 93.1 percent of the inspected pipe segments within the City were free of significant structural defects. The remaining 6.9 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	581,396	72.3	2,601
2: Minor to Moderate	100,320	12.5	437
3: Moderate	67,138	8.3	276
4: Significant	31,636	3.9	130
5: Most Significant	23,769	3.0	106
TOTAL	804,259	100.0	3,550

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

PROJECT NAME:	Y0TV1415B	PROJECT MGR:	Eric Liu
PROJECT DATE:	4/27/2016	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(s):	4	MAP PAGE(S):	2348, 2349, 2350, 2389, 2390, 2391, 2392, 2432, 2433, 2434
Report By:	Eric Liu	Report Date:	08/26/2019

INTRODUCTION

Los Angeles County Public Works Consolidated Sewer Maintenance District (District) conducted a condition-assessment of 588,041 feet or 73.1 percent of the City's entire sewer system as part of Project No. Y0TV1415B.

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

- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Map, High Water Levels List and Map, and Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Structural Rating Priority Map (Enclosure 3)

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. Y0TV1415B included sewer lines located in the unincorporated County of Los Angeles and the Cities of Baldwin Park, and Diamond Bar. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

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

MAINTENANCE REPORT

Our inspection revealed that approximately 73.0 percent of the system televised in your City as part of Project No. Y0TV1415B was free of significant blockages or restrictions that would impede sewer flows. The remaining 27.0 percent of the pipe segments had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our periodic cleaning schedule with corrective action taken.

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

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	311,895	53.0	1,433
2: Minor to Moderate	117,804	20.0	495
3: Moderate	68,725	11.7	309
4: Significant	70,865	12.1	304
5: Most Significant	18,752	3.2	82
TOTAL	588,041	100.0	2,623

High-Water Levels

Our inspection revealed that approximately 98.3 percent of the system televised has adequate capacity. Approximately 1.7 percent of the segments inspected exhibited visual signs associated with high-water levels. The capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicate the camera was underwater or there were sags in the line. A sewer pipe is considered at capacity when 50 percent of the diameter of the sewer pipe is full of water. However, there are conditions in which the Water Level or Water Mark has reached 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage caused by debris in the sewer lines, or a sag in the line. Therefore, additional review of these pipe segments was conducted to determine if any capacity issues exist.

All sewer pipes where the Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity have been listed and analyzed on the High-Water Level Table in Enclosure 2. The nature of these high-water level conditions is also summarized on this table. When the items have been identified to have high-water levels due to sewer line capacity, a Yes is indicated in the capacity column. These areas should be reviewed by the City for existing and future capacity needs.

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

Infiltration

Our inspection revealed that approximately 0.3 percent of the system in your City as part of Project No. Y0TV1415B has infiltration within the pipe segments. Infiltration is the ingress of groundwater into the sewers through a defect of porous area of the pipe wall. All sewer pipes where infiltration was found are listed on the Infiltration Table in Enclosure 2. This table also provides the proposed corrective action for these impacted sewer segments. If a corrective action is proposed, the work will be programmed in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

A map showing the sewer lines with infiltration is provided in Enclosure 2.

STRUCTURAL REPORT

Our inspection revealed that approximately 93.5 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 6.5 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list for rehabilitations based on the severity and the need for action. For items 1 through 169 in the Quick Structural Rating Report Priority List (Enclosure 3), which warrant a corrective action, the repair will be programmed in the next 24 months as part of the ongoing Accumulative Capital Outlay Program.

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

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. OF SEGMENTS
1: Minor	405,680	69.0	1,835
2: Minor to Moderate	90,801	15.4	396
3: Moderate	53,276	9.1	223
4: Significant	18,342	3.1	79
5: Most Significant	19,942	3.4	90
TOTAL	588,041	100.0	2,623

CONDITION-ASSESSMENT PROJECTS

The Sewer Condition-Assessment Program performed the condition-assessment of the sewer lines within the City according to the following schedule:

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2009-10	Y0TV0910C	114,095	14.2	COMPLETED
2010-11	Y0TV1011A	102,123	12.7	COMPLETED
2014-15	Y0TV1415B	588,041	73.1	COMPLETED
TOTAL		804,259	100.0	

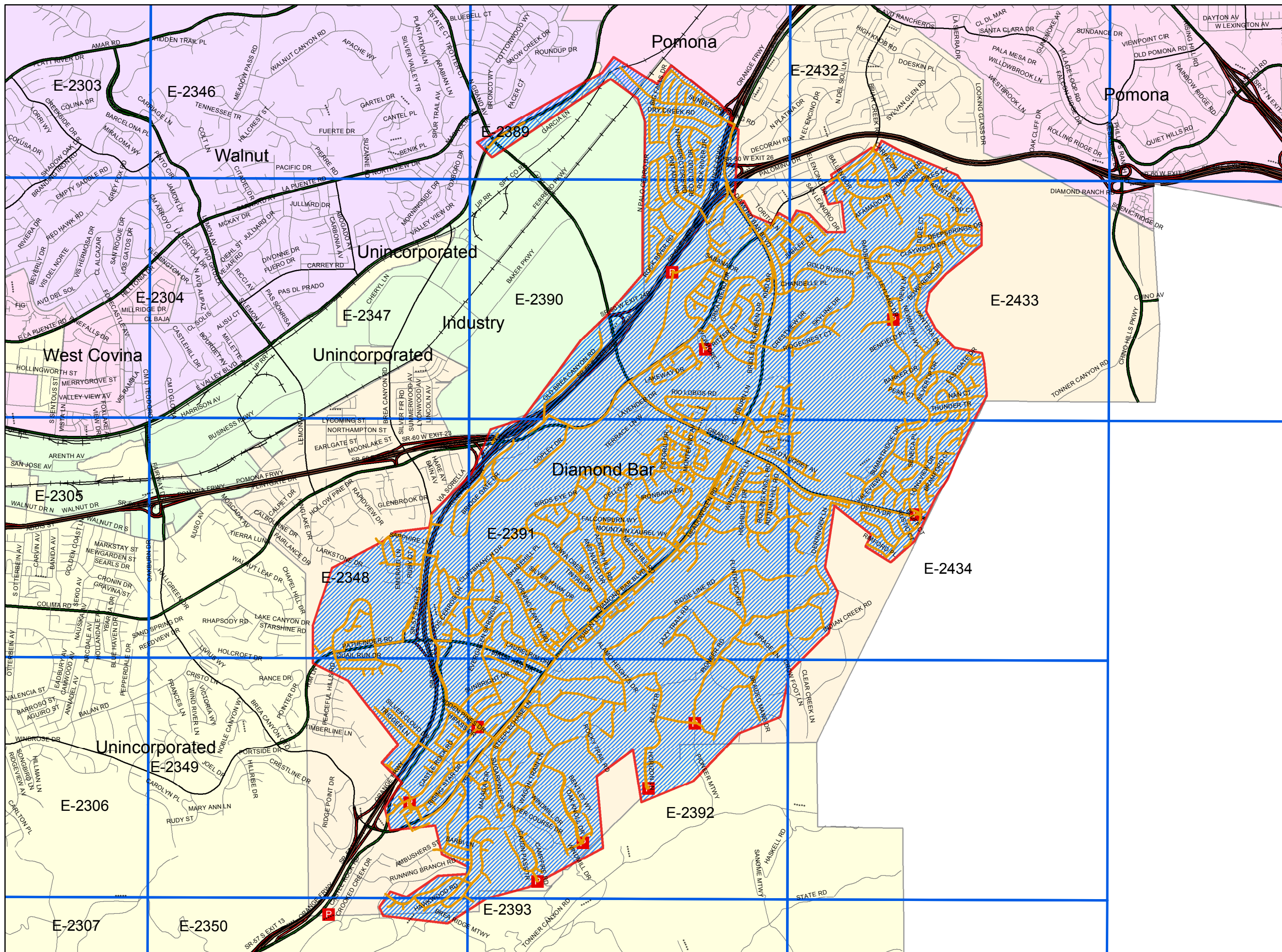
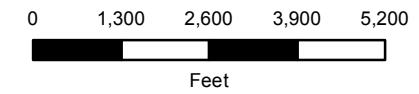
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP

CCTV PROJECT YOTV1415B

CITY OF DIAMOND BAR



Legend

- SMD Manholes**
 - Other
- Manhole Type**
 - Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
- SMD Pump Stations**
- SMD Treatment Plants**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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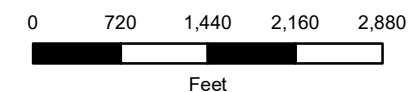
ENCLOSURE 2:

- Quick Maintenance Rating Map
- High Water Levels List and Map
- Infiltration List and Map

ENCLOSURE 2 CCTV PROJECT Y0TV1415B

**CITY OF
DIAMOND BAR**

**QUICK
MAINTENANCE
RATING
(QMR)**



Legend

SMD Sanitary Sewers

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

SMD Manholes

Other

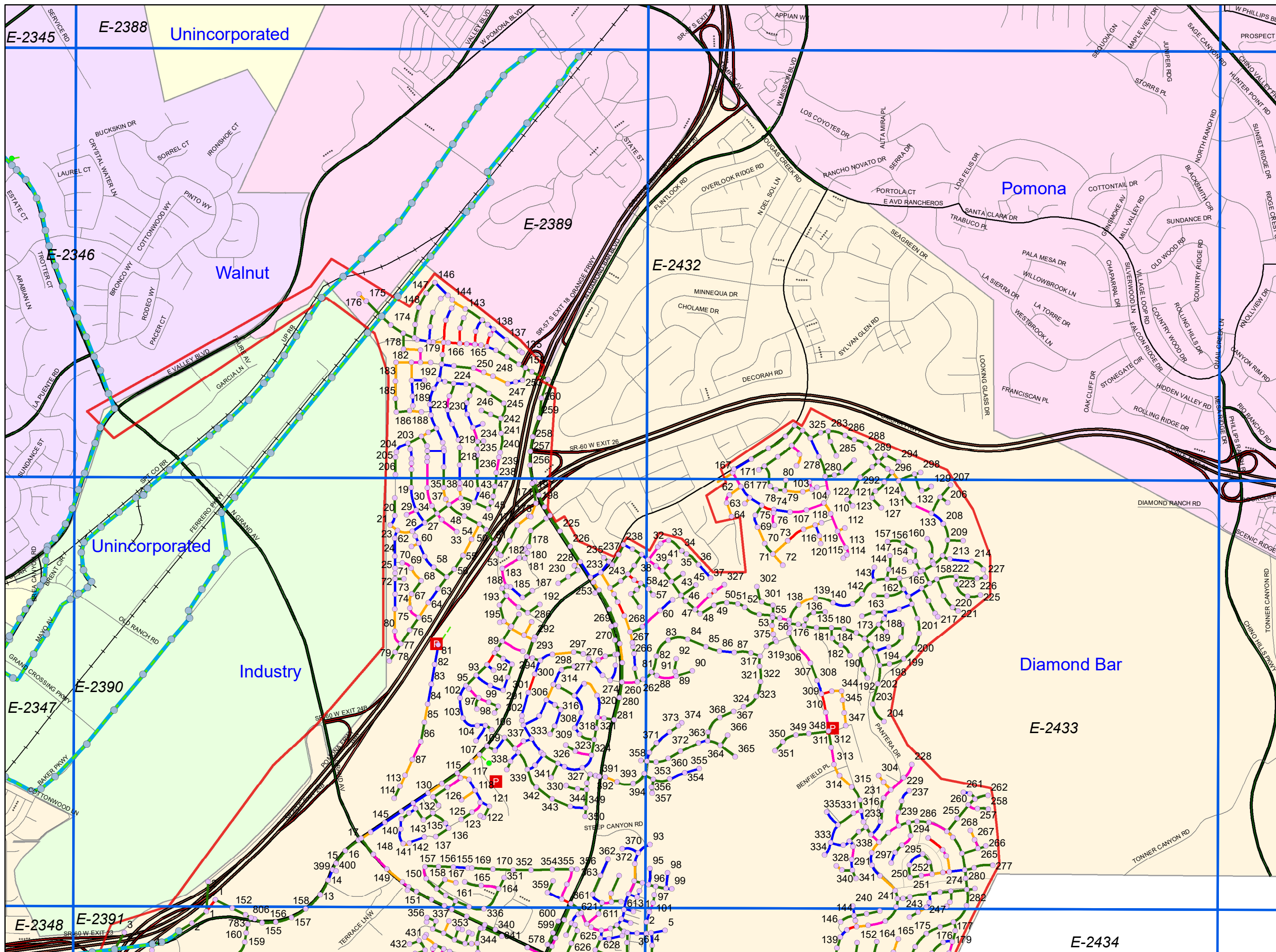
Manhole Type

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

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
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E-2345 E-2388 Unincorporated

E-2346 Walnut

Unincorporated

E-2390 Industry

E-2348 E-2391

E-2389

E-2432

Pomona

Diamond Bar

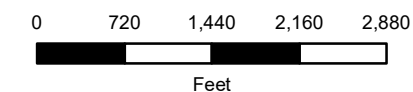
E-2433

E-2434

ENCLOSURE 2 CCTV PROJECT Y0TV1415B

**CITY OF
DIAMOND BAR**

**QUICK
MAINTENANCE
RATING
(QMR)**



Legend

SMD Sanitary Sewers

QMR

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

SMD Manholes

- Other

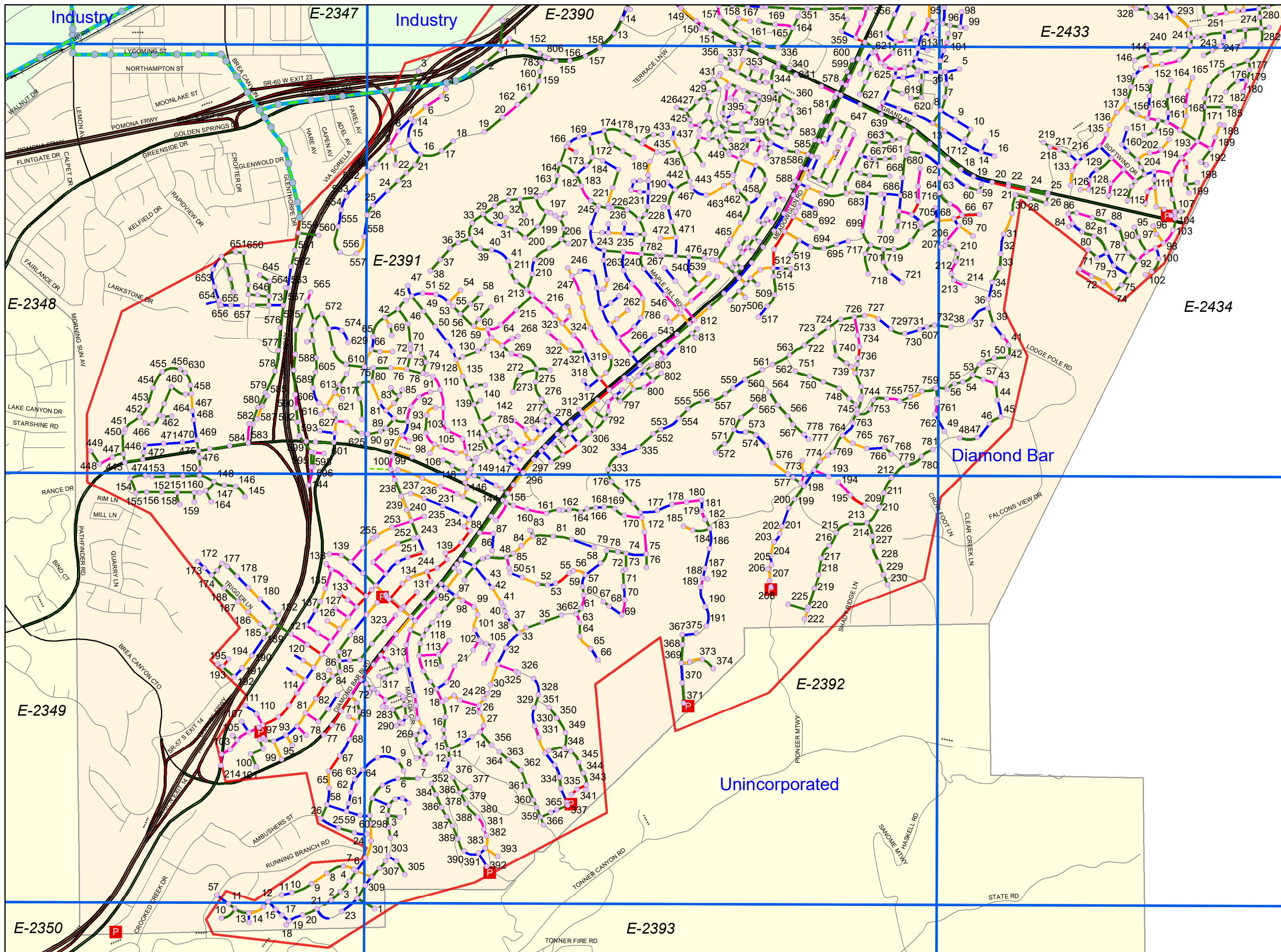
Manhole Type

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

- Trunk Sewerlines
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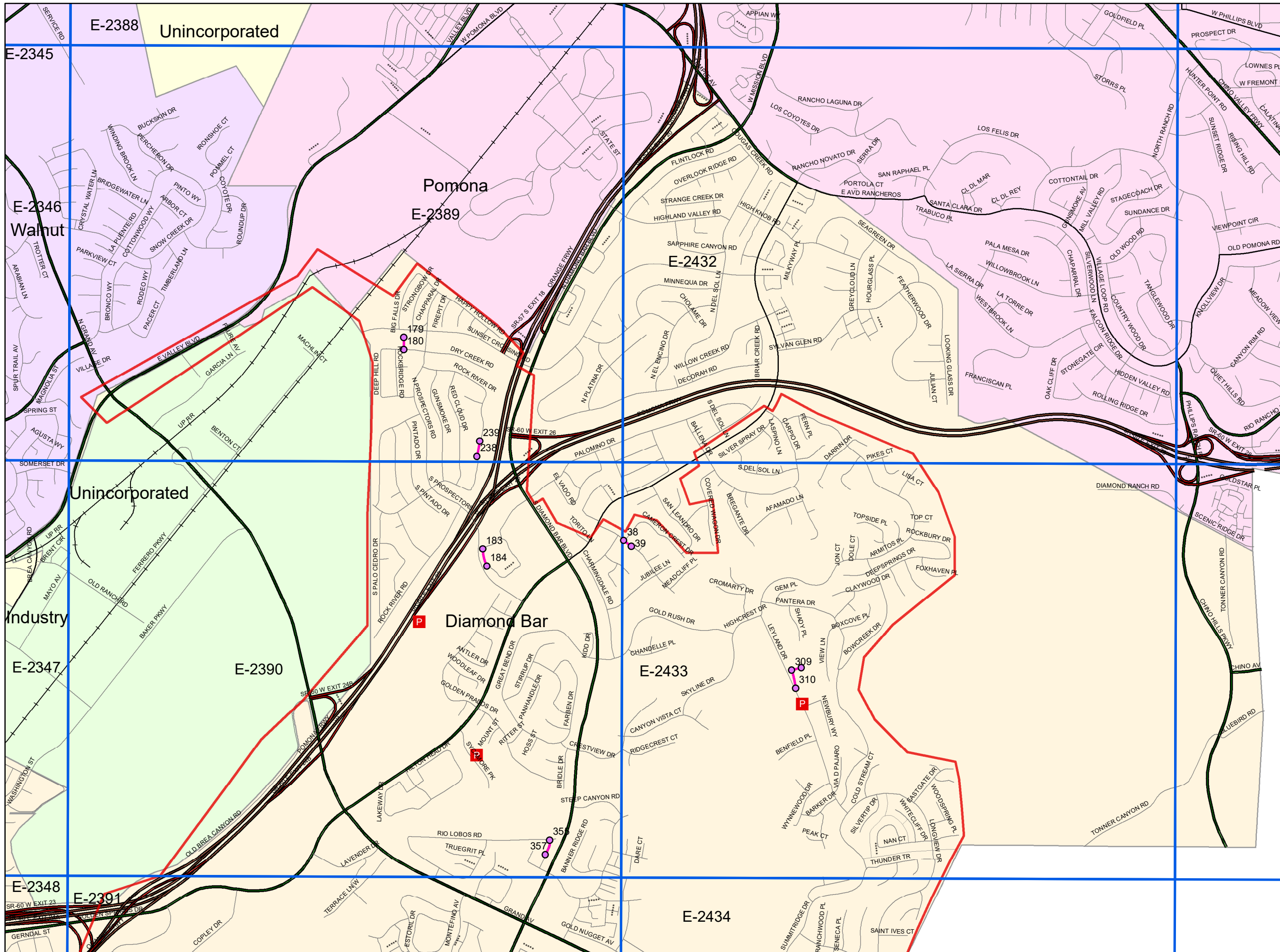
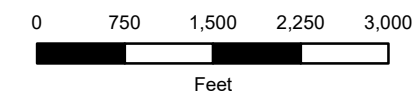
**ENCLOSURE 2
HIGH WATER LEVELS
CITY OF DIAMOND BAR (Y0TV1415B)**

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION: LOCATION	CAPACITY	CORRECTIVE ACTION
1	5441	2433-0309	2433-0310	LEYLAND DR	High water mark	NO	Hydrojet
2	523C	2391-0518	2391-0511	MEADOWGLEN RD	High water level	NO	Hydrojet
3	5232	2349-0112	2349-0109	CASTLE ROCK RD	High water level	NO	Hydrojet
4	5200	2349-0076	2349-0075	DIAMOND BAR BV	High water level	NO	Hydrojet
5	5200	2349-0074	2392-0277	DIAMOND BAR BV	High water mark	NO	Hydrojet
6	5142	2349-0120	2349-0119	COLD SPRING LN	High water level	NO	Hydrojet
7	5142	2392-0154	2392-0153	DIAMOND BAR BV	High water level, Camera underwater	NO	Hydrojet
8	5141	2391-0315	2391-0314	DIAMOND BAR BV	High water level	NO	Hydrojet
9	5141	2433-0343	2433-0309	NEWBURY WY	High water mark	NO	Hydrojet
10	5122	2349-0083	2349-0082	CROOKED CREEK DR	High water level	NO	Hydrojet
11	4A00	2391-0530	2391-0541	DIAMOND BAR BV	High water mark, Camera underwater	NO	Hydrojet
12	4900	2434-0194	2434-0111	LONGVIEW DR	Camera underwater	NO	Hydrojet
13	4600	2389-0239	2389-0238	ROCK RIVER DR	Camera underwater	NO	Hydrojet
14	432C	2389-0180	2389-0179	DRY CREEK	Sag	NO	Hydrojet
15	4132	2434-0206	2434-0069	EASEMENT	High water mark	NO	Hydrojet
16	4131	2390-0184	2390-0183	PRIVATE RD	High water mark	NO	Hydrojet
17	4125	2390-0355	2390-0357	COGBURN LN	High water mark	NO	Hydrojet
18	4121	2391-0324	2391-0320	KIOWA CREST DR	High water mark	NO	Hydrojet
19	4121	2392-0182	2392-0181	BLAZE TR	High water mark	NO	Hydrojet
20	4121	2434-0083	2434-0085	SUMMITRIDGE DR	High water mark	NO	Hydrojet
21	4111	2391-0241	2391-0240	MOUNTAIN LAUREL WY	High water mark	NO	Hydrojet
22	4100	2434-0105	SMPS00760	EASEMENT	High water mark	NO	Hydrojet
23	4100	2434-0086	2434-0087	DELTA DR	High water mark	NO	Hydrojet
24	4100	2434-0071	2434-0072	RIMFORD PL	High water mark	NO	Hydrojet
25	4100	2392-0277	2392-0312	DIAMOND BAR BV	High water mark	NO	Hydrojet
26	4100	2433-0039	2433-0038	RANCHERIA DR	High water mark	NO	Hydrojet
27	4100	2434-0104	2434-0105	LONGVIEW DR	High water mark	NO	Hydrojet
28	4100	2349-0144	2348-0595	EASEMENT	High water mark	NO	Hydrojet
29	3100	2392-0275	2392-0124	DIAMOND BAR BV	High water mark	NO	Hydrojet

ENCLOSURE 2
CCTV PROJECT
Y0TV1415B

CITY OF
DIAMOND BAR

HIGH WATER
LEVELS



Legend

- High Water Level
- SMD Manholes**
- Other
- Manhole Type**
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

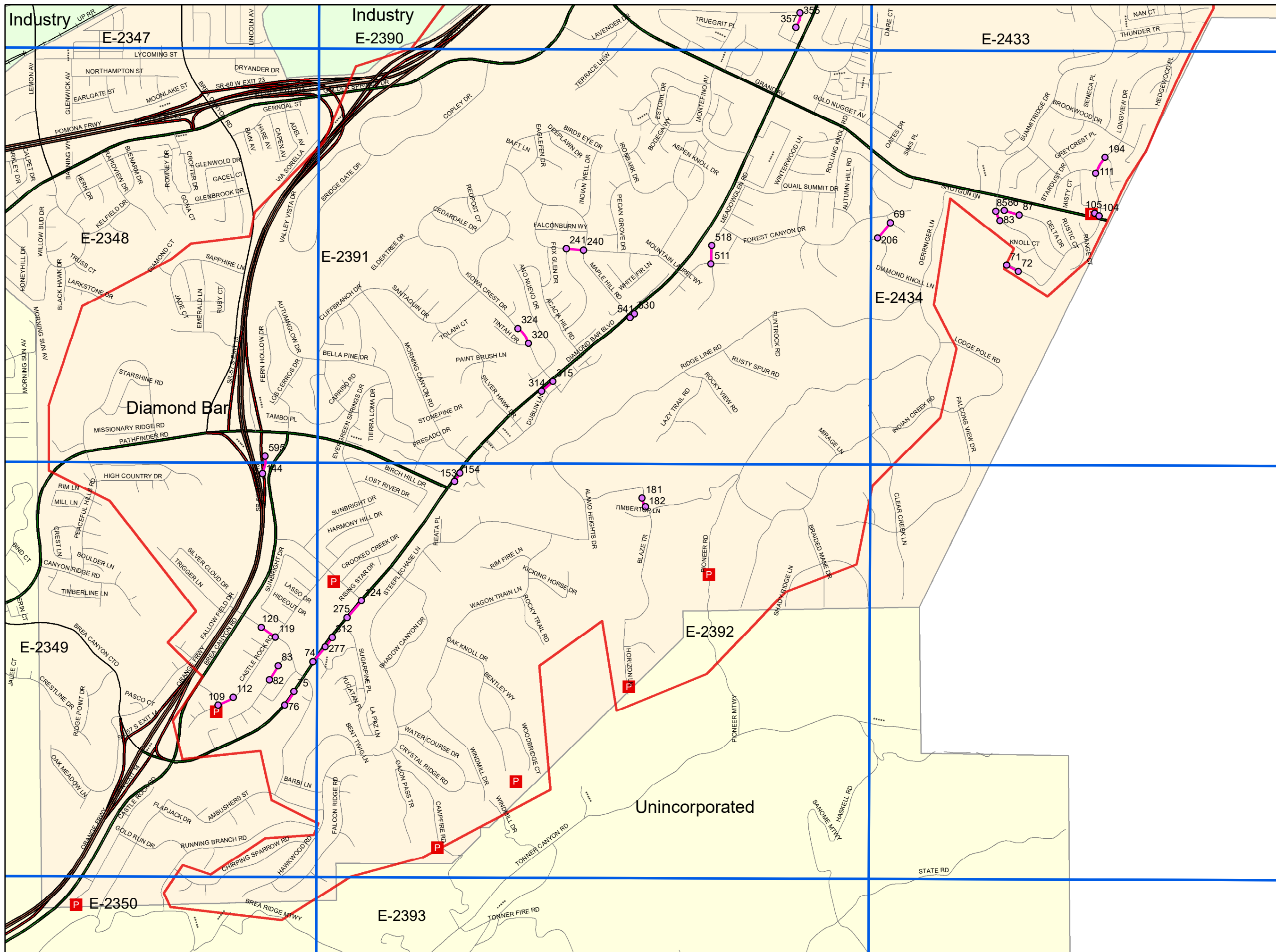
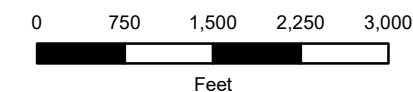
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October 2019

ENCLOSURE 2 CCTV PROJECT Y0TV1415B

**CITY OF
DIAMOND BAR**

HIGH WATER LEVELS



Legend

- High Water Level
- SMD Manholes**
 - ⊕ Other
- Manhole Type**
 - Standard
 - ▲ DROP
 - ◆ Shallow
 - ◇ Trap
 - ⊗ Siphon
 - P SMD Pump Stations
 - WTP SMD Treatment Plants
 - Trunk Sewerlines
 - - - Non SMD Sanitary Sewers
 - Non SMD Maintained MH
 - SMD Operations Maps
 - CCTV Project Area

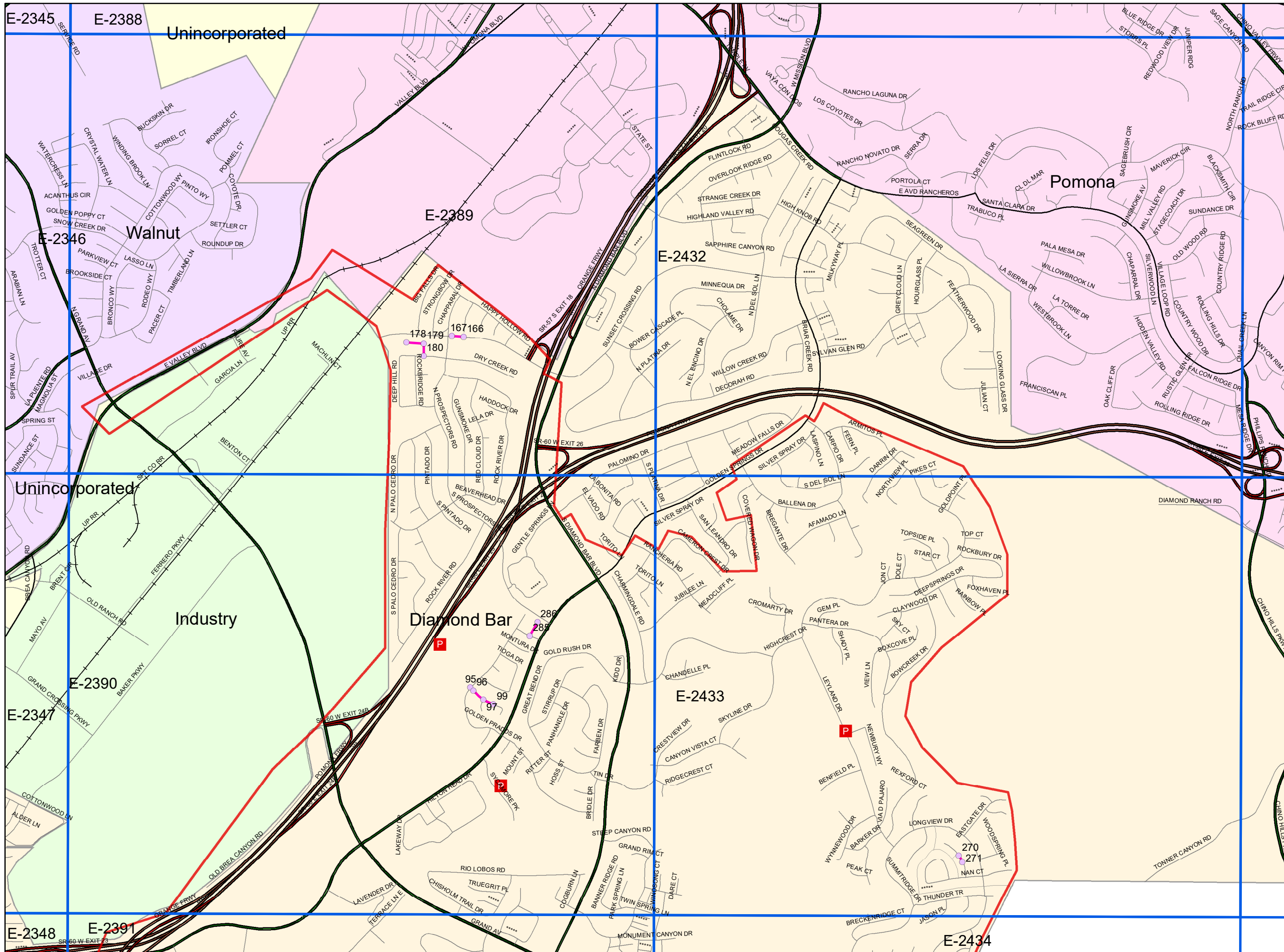
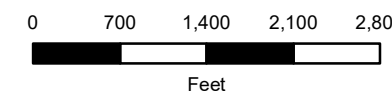
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ENCLOSURE 2
INFILTRATION
DIAMOND BAR (Y0TV1415B)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	CORRECTIVE ACTION
1	2392-0244	2392-0245	CASTLE ROCK RD	Infiltration gusher	Lining: MH to MH
2	2389-0166	2389-0167	SUNSET CROSSING RD	Infiltration runner	Infiltration is minimal. No action needed.
3	2391-0316	2391-0315	KIOWA CREST DR	Infiltration gusher	Lining: MH to MH
4	2349-0113	2349-0112	CASTLE ROCK RD	Infiltration runner	Infiltration is minimal. No action needed.
5	2349-0115	2349-0114	CASTLE ROCK RD	Infiltration runner	Lining: MH to MH
6	2349-0129	2349-0128	CASTLE ROCK RD	Infiltration runner	Infiltration is minimal. No action needed.
7	2349-0122	2349-0123	SILVER CLOUD DR	Infiltration runner	Infiltration is minimal. No action needed.
8	2389-0180	2389-0179	DRY CREEK	Infiltration runner	Infiltration is minimal. No action needed.
9	2349-0127	2349-0128	LASSO DR	Infiltration runner	Infiltration is minimal. No action needed.
10	2349-0133	2349-0132	HIDDEN PINES DR	Infiltration runner	Infiltration is minimal. No action needed.
11	2391-0527	2391-0526	DIAMOND BAR BV	Infiltration runner	Grout injection.
12	2392-0324	2392-0323	COUNTRY HILLS TOWN CENTER	Infiltration runner	Infiltration is minimal. No action needed.
13	2391-0644	2391-0593	EASEMENT	Infiltration runner	Infiltration is minimal. No action needed.
14	2349-0124	2349-0119	CASTLE ROCK RD	Infiltration runner	Grout injection.
15	2349-0125	2349-0124	CASTLE ROCK RD	Infiltration runner	Grout injection.
16	2349-0130	2349-0129	HIPASS DR	Infiltration runner	Grout injection.
17	2349-0134	2349-0133	HIDDEN PINES DR	Infiltration dripper	Infiltration is minimal. No action needed.
18	2392-0249	2392-0247	HARMONY HILL DR	Infiltration runner	Grout injection.
19	2391-0295	2391-0296	CANYON DR	Infiltration runner	Infiltration is minimal. No action needed.
20	2433-0270	2433-0271	WHITECLIFF DR	Infiltration dripper	Infiltration is minimal. No action needed.
21	2390-0096	2390-0097	WOODLEAF DR	Infiltration runner	Grout injection.
22	2391-0328	2391-0315	DIAMOND BAR BV	Infiltration runner	Infiltration is minimal. No action needed.
23	2391-0714	2391-0711	SAND RIDGE RD	Infiltration runner	Grout injection.
24	2391-0589	2391-0527	DIAMOND BAR BV	Infiltration runner	Infiltration is minimal. No action needed.
25	2392-0274	2392-0271	EASEMENT	Infiltration runner	Infiltration is minimal. No action needed.
26	2390-0099	2390-0097	WOODLEAF DR	Infiltration runner	Grout injection.
27	2349-0119	2349-0118	CASTLE ROCK RD	Infiltration dripper	Infiltration is minimal. No action needed.
28	2392-0124	2392-0129	FOUNTAIN SPRINGS RD	Infiltration dripper	Infiltration is minimal. No action needed.
29	2392-0172	2392-0171	ALAMO HEIGHTS DR	Infiltration dripper	Infiltration is minimal. No action needed.
30	2390-0286	2390-0285	CAMARITAS DR	Infiltration dripper	Infiltration is minimal. No action needed.
31	2434-SOUT	2434-0116	MISTY CT	Infiltration dripper	Infiltration is minimal. No action needed.
32	2392-0331	2392-0332	OAK KNOLL DR	Infiltration dripper	Infiltration is minimal. No action needed.
33	2389-0179	2389-0178	ALLEY	Infiltration dripper	Infiltration is minimal. No action needed.
34	2390-0096	2390-0095	WOODLEAF DR	Infiltration dripper	Grout injection.
35	2391-0504	2391-0503	MOUNTAIN LAUREL WY	Infiltration dripper	Infiltration is minimal. No action needed.

ENCLOSURE 2
CCTV PROJECT
Y0TV1415B
CITY OF
DIAMOND BAR

INFILTRATION



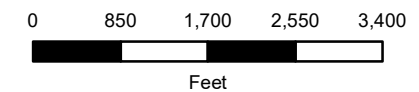
Legend

- Infiltration
- SMD Manholes**
- ⊗ Other
- Manhole Type**
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants
- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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ENCLOSURE 2
CCTV PROJECT
Y0TV1415B
CITY OF
DIAMOND BAR

INFILTRATION

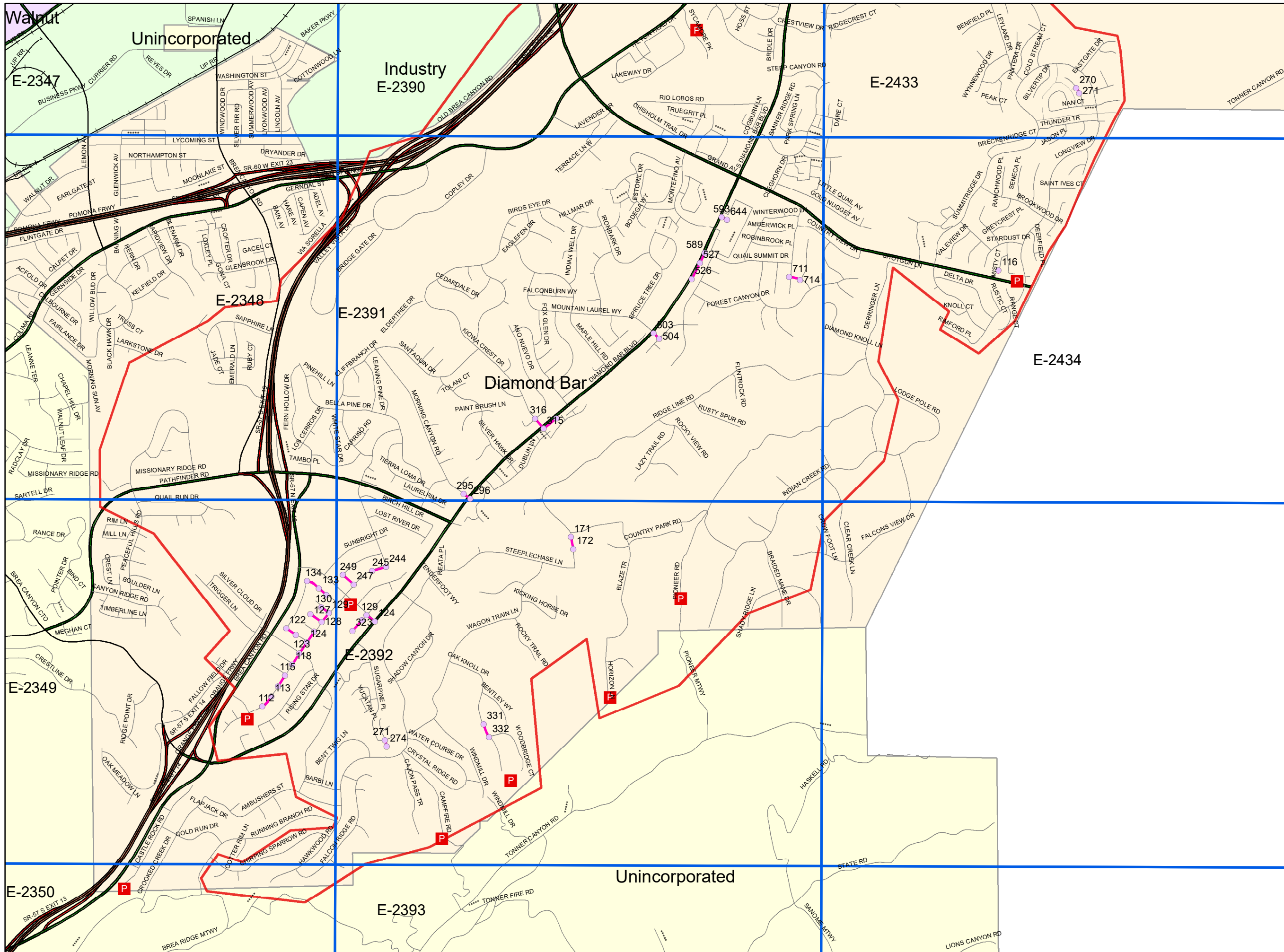


Legend

- Infiltration
- SMD Manholes**
- ⊙ Other
- Manhole Type**
- Standard
- ▲ DROP
- ◊ Shallow
- ◇ Trap
- ⊗ Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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October 2019



ENCLOSURE 3:

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

**ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF DIAMOND BAR (Y0TV1415B)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
1	2391-0152	2390-0001	GOLDEN SPRINGS	Fracture multiple, Broken	Lining
2	2391-0153	2391-0152	GOLDEN SPRINGS DR	Fractures, Broken	Lining
3	2390-0295	2390-0294	EASEMENT	Fractures, Broken	Lining
4	2392-0117	2392-0122	EASEMENT	Fracture multiple, Broken, Hole	Lining
5	2390-0175	2390-0174	PROSPECTORS RD	Fracture multiple, Broken	Lining
6	2390-0334	2390-0336	EASEMENT	Fracture multiple, Broken	Lining
7	2348-0588	2348-0569	EASEMENT	Fractures, Broken	Lining
8	2391-0266	2391-0332	ASPEN GROVE LN	Fracture, Broken	Lining
9	2391-0659	2391-0658	ALLEY	Fracture multiple, Broken	Lining
10	2389-0193	2389-0168	PROSPECTORS RD	Fractures	Lining
11	2391-0001	2391-0002	EASEMENT	Fractures, Broken	Lining
12	2391-0098	2391-0097	PATHFINDER RD	Broken	No action needed*
13	2392-0016	2392-0017	STEEPLECHASE LN	Fracture multiple	No action needed*
14	2434-0099	2434-0098	LONGVIEW DR	Broken, Hole	Emergency Point Repair (July 2019)
15	2391-0014	2391-0007	GATEWAY CENTER DR	Fracture multiple, Broken	Point repair
16	2389-0234	2389-0231	RED CLOUD DR	Fracture multiple, Broken	Point repair
17	2391-0756	2391-0755	EASEMENT	Fracture multiple, Broken	Lining
18	2391-0805	2391-0804	GALVIN CT	Joint offset, Collapsed	Emergency Point Repair (July 2019)
19	2390-0373	2390-0375	CLEAR CREEK CYN DR	Fracture multiple, Broken	Lining
20	2392-0392	2392-PUMP	EASEMENT	Fracture multiple, Broken	Lining
21	2349-0191	2349-0190	FALLOW FIELD DR	Broken	Lining
22	2349-0123	2349-0124	SILVER CLOUD DR	Fracture multiple, Broken	Point repair
23	2391-0101	2392-0233	BIRCH HILL DR	Fracture multiple, Broken	Lining
24	2434-0021	2434-0020	GRAND AV	Fracture multiple, Broken	Lining
25	2392-0313	2392-0312	EASEMENT	Fracture multiple, Broken	Emergency Point Repair (July 2019), Lining
26	2389-0252	2389-0253	DRY CREEK RD	Fracture multiple, Broken	Lining
27	2390-0181	2390-0180	EASEMENT	Broken	Lining
28	2433-0110	2433-0109	PINTO MESA DR	Hole at base of manhole	MH base repair
29	2434-0043	2434-0057	EASEMENT	Fractures, Broken	Lining
30	2390-0057	2390-0056	ROCK RIVER RD	Fractures, Broken	Lining
31	2349-0005	2392-0302	HAWKWOOD RD	Fractures	No action needed*
32	2390-0330	2390-0329	HOSS ST	Fractures, Broken	No action needed*
33	2390-0278	2390-0276	EASEMENT	Fracture multiple, Broken	Point repair
34	2392-0034	2392-0033	WAGON TRAIN LN	Fracture multiple	Lining
35	2392-0076	2392-0075	ALAMO HEIGHTS DR	Fractures	No action needed*
36	2391-0021	2391-0016	BRIDGE GATE DR	Joint offset, Broken	Point repair
37	2391-0446	2391-0447	BARBERRY DR	Fractures	No action needed*
38	2391-0062	2391-0064	SANTAQUIN DR	Fracture multiple	Lining

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF DIAMOND BAR (Y0TV1415B)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
39	2392-0022	2392-0018	EASEMENT	Fracture multiple, Broken, Hole at base of manhole	Lining, MH base repair
40	2391-0778	2391-0777	EASEMENT	Fractures, Broken	No action needed*
41	2391-0088	2391-0087	BROKEN ARROW DR	Fracture multiple, Broken	Lining
42	2390-0344	2390-0343	GOLDEN PRADOS DR	Broken	Lining
43	2391-0766	2391-0765	MIRAGE LN	Fractures, Broken	Lining
44	2392-0111	2392-0112	STEEPLECHASE LN	Broken	Lining
45	2392-0114	2392-0113	EASEMENT	Fractures	No action needed*
46	2391-0327	2391-0326	ANO NUEVO DR	Broken	Lining
47	2391-0187	2391-0232	CELLO DR	Broken	Lining
48	2392-0050	2392-0049	EASEMENT	Fractures, Broken	Lining
49	2392-0051	2392-0050	EASEMENT	Broken, Hole at base of manhole	Lining, MH base repair
50	2391-0729	2391-0728	RIDGE LINE RD	Fractures, Broken	Lining
51	2391-0610	2391-0609	CLEAR CREEK CYN RD	Broken	Lining
52	2433-0111	2433-0110	PINTO MESA DR	Hole at base of manhole	MH base repair
53	2433-0057	2433-0058	TORITO LN	Hole at base of manhole	MH base repair
54	2390-0244	2390-0240	CASA LOMA DR	Fractures, Broken	No action needed*
55	2389-0186	2389-0185	DEEP HILL RD	Joint offset, Broken	Point repair
56	2390-0360	2390-0361	CLEAR CREEK CYN DR	Hole	Emergency Point Repair (September 2019)
57	2391-0388	2391-0387	ESTORIL DR	Joint Offset, Broken	Point repair
58	2392-0049	2392-0048	EASEMENT	Broken	Lining
59	2391-0762	2391-0761	EASEMENT	Broken	Lining
60	2434-0050	2434-0051	EASEMENT	Fractures, Broken	Lining
61	2391-0287	2391-0286	PRIVATE RD	Fractures, Broken	No action needed*
62	2391-0575	2391-0576	EASEMENT	Joint offset, Broken	Lining
63	2390-0296	2390-0297	GOLDRUSH DR	Joint offset, Broken	Lining
64	2391-0608	2391-0606	CLEAR CREEK CYN DR	Fractures, Broken	Lining
65	2392-0145	2392-0144	BIRCH HILL DR	Hole at base of manhole	MH base repair
66	2392-0231	2392-0145	BIRCH HILL DR	Hole at base of manhole	MH base repair
67	2391-0326	2391-0325	ANO NUEVO DR	Hole at base of manhole	MH base repair
68	2391-0786	2391-0266	ASPEN GROVE LN	Fractures	No action needed*
69	2391-0189	2391-0190	INDIAN WELL DR	Broken	Lining
70	2390-0157	2390-0158	CHISOLM TRAIL DR	Broken	Point Repair
71	2391-0795	2391-0794	DUBLIN LN	Bulge	No action needed*
72	2348-0582	2348-0581	BREA CANYON RD	Broken	Lining
73	2391-0334	2391-0333	RIDGE LINE RD	Broken	No action needed*
74	2434-0092	2434-0093	LONGVIEW DR	Bulge	No action needed*
75	2391-0567	2391-0778	EASEMENT	Broken	Lining
76	2391-0746	2391-0745	EASEMENT	Fractures, Broken	Lining

**ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF DIAMOND BAR (Y0TV1415B)**

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
77	2391-0745	2391-0752	EASEMENT	Fractures	No action needed*
78	2391-0138	2391-0137	ONAWA PL	Hole at base of manhole	MH base repair
79	2390-0312	2390-0311	STIRRUP DR	Broken	Lining
80	2391-0666	2391-0665	AMBERWICK PL	Broken	Lining
81	2433-0206	2433-0205	LISA CT	Fracture multiple, Broken	Point repair
82	2390-0072	2390-0074	PALO CEDRO DR	Fracture multiple, Broken	Lining
83	2390-0069	2390-0068	EAGLE NEST DR	Fracture multiple, Broken	Lining
84	2390-0067	2390-0066	EAGLE NEST DR	Fractures, Broken	No action needed*
85	2433-0058	2390-0246	TORITO LN	Hole at base of manhole	MH base repair
86	2389-0148	2389-0149	BIG FALLS DR	Fractures, Broken	No action needed*
87	2432-0277	2432-0273	CARPIO DR	Hole at base of manhole	MH base repair
88	2434-0053	2434-0054	EASEMENT	Broken	Lining
89	2434-0052	2434-0053	EASEMENT	Fractures	No action needed*
90	2392-0128	2392-0127	EASEMENT	Broken	No action needed*
91	2390-0357	2390-0360	COGBURN LN	Joint offset	No action needed*
92	2391-0486	2391-0485	EASEMENT	No structural deficiencies	No action needed*
93	2391-0007	2391-0006	VALLEY VISTA DR	Fractures	No action needed*
94	2433-0046	2433-0044	RANCHERIA DR	Fracture multiple	No action needed*
95	2391-0541	2391-0549	DIAMOND BAR BV	Fractures	No action needed*
96	2433-0309	2433-0310	LEYLAND DR	Joint offset	No action needed*
97	2433-0050	2433-0049	CROMARTY DR	Fractures	No action needed*
98	2389-0249	2389-0248	DRY CREEK RD	Fracture multiple	Lining
99	2433-0170	2433-0171	CLAYWOOD DR	Joint offset	No action needed*
100	2433-0343	2433-0309	NEWBURY WY	Joint offset	No action needed*
101	2389-0180	2389-0179	DRY CREEK	Joint offset	No action needed*
102	2389-0178	2389-0173	ALLEY	Joint offset	No action needed*
103	2389-0250	2389-0251	DRY CREEK RD	Fracture multiple	No action needed*
104	2389-0251	2389-0194	DRY CREEK RD	Fracture multiple	No action needed*
105	2390-0372	2390-0373	CLEAR CREEK CYN DR	Fracture multiple, Joint offset, Broken	Lining
106	2349-0094	2349-0096	CROOKED CREEK DR	No structural deficiencies	No action needed*
107	2391-0250	2391-0327	ANO NUEVO DR	Fracture multiple, Broken	Lining
108	2434-0093	2434-0099	LONGVIEW DR	Fractures	No action needed*
109	2391-0726	2391-0733	EASEMENT	Fracture multiple, Joint offset, Broken	Point repair; Lining
110	2391-0494	2391-0493	EASEMENT	No structural deficiencies	No action needed*
111	2391-0649	2391-0591	EASEMENT	Fracture multiple, Broken	Lining
112	2392-0040	2392-0041	EASEMENT	Fracture multiple, Broken	Lining
113	2434-0097	2434-0098	BLUFF CT	Broken	Lining
114	2391-0059	2391-0062	SANTAQUIN DR	Fracture multiple	No action needed*

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF DIAMOND BAR (Y0TV1415B)

ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
115	2433-0038	2390-0240	RANCHERIA RD	Hole	MH base repair
116	2389-0137	2389-0138	HAPPY HOLLOW RD	Fracture multiple, Joint offset	No action needed*
117	2390-0107	2390-0105	CAMARITAS DR	Fracture multiple	No action needed*
118	2433-0051	2433-0050	CROMARTY DR	Fractures	Lining
119	2434-0106	2434-0105	EASEMENT	Fracture multiple	No action needed*
120	2391-0570	2391-0573	FEATHER ROCK RD	Fracture multiple	No action needed*
121	2392-0225	2392-0221	EASEMENT	Fracture multiple	No action needed*
122	2434-0103	2434-0104	LONGVIEW DR	Joint offset	No action needed*
123	2390-0179	2390-0178	PRIVATE RD	Fracture multiple	No action needed*
124	2392-0030	2392-0031	WAGON TRAIN LN	Fracture multiple	No action needed*
125	2348-0616	2348-0615	LOS CERROS DR	Fracture multiple	No action needed*
126	2389-0249	2389-0250	DRY CREEK RD	No structural deficiencies	No action needed*
127	2392-0073	2392-0074	EASEMENT	Fracture multiple	No action needed*
128	2392-0041	2392-0042	EASEMENT	Fracture multiple, Broken	No action needed*
129	2390-0200	2390-0201	DIAMOND BAR BV	Fractures	No action needed*
130	2390-0017	2390-0016	GOLDEN SPRINGS DR	Fracture multiple	No action needed*
131	2391-0249	2391-0250	ANO NUEVO DR	Fracture, Broken	No action needed*
132	2390-0374	2390-0373	MEANDERING CREEK DR	Fracture multiple, Joint offset	No action needed*
133	2391-0262	2391-0261	ROBIN OAKS TE	Fracture multiple	No action needed*
134	2391-0803	2391-0804	GALVIN CT	Bulge	No action needed*
135	2390-0235	2390-0234	TORITO LN	Fracture multiple	No action needed*
136	2390-0353	2390-0354	RIO LOBOS RD	Joint offset	No action needed*
137	2392-0035	2392-0034	WAGON TRAIN LN	Hole at base of manhole	MH base repair
138	2434-0212	2434-0211	DIAMOND KNOLL LN	Fracture multiple	No action needed*
139	2392-0264	2392-0263	EASEMENT	Fracture multiple	No action needed*
140	2349-0110	2349-0109	COOL SPRINGS DR	Fracture multiple	No action needed*
141	2391-0472	2391-0471	HICKORY NUT LN	Fracture multiple	No action needed*
142	2433-0263	2433-0264	LONGVIEW DR	No structural deficiencies	No action needed*
143	2391-0248	2391-0249	ANO NUEVO DR	Fracture multiple	No action needed*
144	2391-0251	2391-0252	ACACIA HILL RD	Fracture multiple	No action needed*
145	2391-0264	2391-0263	ASPEN GROVE LN	Fracture multiple	No action needed*
146	2391-0479	2391-0480	MOUNTAIN LAUREL WY	Broken	No action needed*
147	2391-0802	2391-0801	SHANNON LN	Bulge	No action needed*
148	2349-0183	2349-0121	ORANGE FWY	Fracture multiple	No action needed*
149	2349-0135	2349-0136	SUNBRIGHT DR	Broken	No action needed*
150	2392-0140	2392-0139	EASEMENT	Fracture multiple	No action needed*
151	2392-0214	2392-0215	INDIAN CREEK RD	Fracture multiple	No action needed*
152	2392-0052	2392-0051	RIM FIRE LN	Fracture multiple	MH base repair

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QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF DIAMOND BAR (Y0TV1415B)**

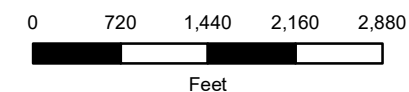
ITEM NO.	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE ACTION
153	2392-0082	2392-0084	STEEPLECHASE LN	Fracture multiple	No action needed*
154	2392-0176	2392-0175	ALAMO HEIGHTS DR	Fracture multiple	No action needed*
155	2391-0748	2391-0747	EASEMENT	Fracture multiple	No action needed*
156	2391-0747	2391-0746	EASEMENT	Fracture multiple	No action needed*
157	2391-0268	2391-0784	TOLANI CT	Fracture multiple	No action needed*
158	2390-0193	2390-0189	EASEMENT	Fracture multiple	No action needed*
159	2391-0773	2392-0197	EASEMENT	Fracture multiple	No action needed*
160	2390-0088	2390-0284	GOLDEN PRADOS DR	Broken	No action needed*
161	2392-0275	2392-0124	DIAMOND BAR BV	Fracture multiple	No action needed*
162	2433-0108	2433-0107	BALLENA DR	Broken	No action needed*
163	2433-0039	2433-0038	RANCHERIA DR	Hole at base of manhole	MH base repair
164	2390-0244	2390-0243	CASA LOMA DR	Hole at base of manhole	MH base repair
165	2433-0130	2432-0296	ARMITOS PL	Deformed	No action needed*
166	2432-0273	2432-0272	CARPIO DR	Fracture multiple	Lining
167	2392-0258	2392-0122	EASEMENT	Fracture multiple	No action needed*
168	2390-0194	2390-0195	EASEMENT	Fracture multiple	Lining
169	2391-0002	2391-TRNK	EASEMENT	Fractures	No action needed*

* Determined not to interfere with the normal operation of the sewer.

ENCLOSURE 2 CCTV PROJECT Y0TV1415B

CITY OF DIAMOND BAR

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

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

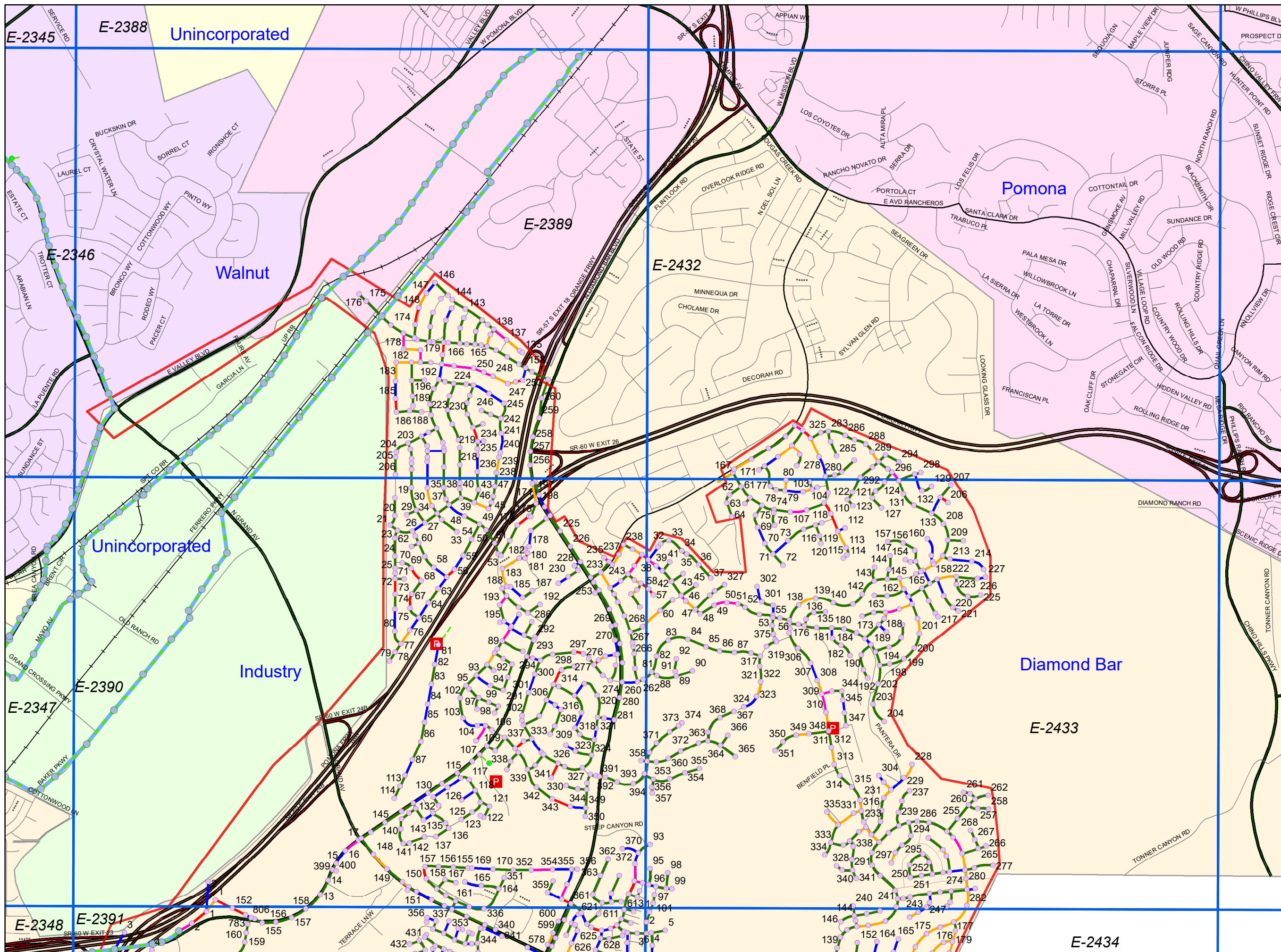
SMD Manholes

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

- Trunk Sewerlines
- Non SMD Sanitary Sewers
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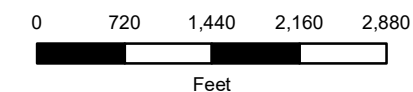
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ENCLOSURE 2 CCTV PROJECT Y0TV1415B

**CITY OF
DIAMOND BAR**

**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
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