



Mr. Tim Crouch
Office of Traffic and Safety
Iowa DOT
800 Lincoln Way
Ames, Iowa 50010

May 2, 2016

Dear Sir,

Pursuant to DOT rule 761 - 144.7 of the Iowa Administrative Code, the City of Cedar Rapids submits this report on its Automated Traffic Enforcement system for calendar year 2015. In so doing, however, the City does not acknowledge the validity of that rule as applied to Cedar Rapids, nor does it concede the report forms a valid basis for any evaluation by which the DOT purports to require changes to the City's ATE program.

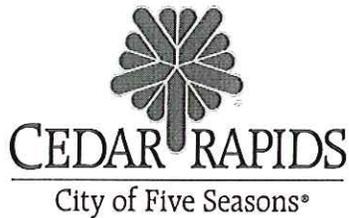
This report includes crash data from TraCs, as well as crash reports submitted by drivers. All crash data has been compiled by the City's Traffic Engineering Department and any redundancies have been removed.

Crash Data Summation:

Between January 1, 2007 and that part of 2010 before ATE was operational (a period of 41 ½ months), the City recorded 213 crash events on I-380. Of the 213 crashes, 92 involved at least one driver or passenger being injured. Three of those 92 crashes involved fatalities with a combined death toll of four.

From the start of ATE in 2010 through 2015 (a period of 66 ½ months), the City recorded 210 crash events on I-380. Of the 210 crashes, 58 resulted in at least one driver or passenger being injured. Most importantly, there have been zero fatal crashes since ATE was installed.

The post-camera period reflected in this report is 25 months longer than the pre-camera period, yet there were fewer total crashes, fewer injury crashes, and no fatal crashes. This data proves the City has produced a significant reduction in both the number and severity of crashes on I-380.



Fixed Speed Cameras Located I-380 Between mm 19-22

	YEAR	Number of Crashes	Injury Crashes	Fatal Crashes	Property Damage Crashes
Pre-camera Data	2007	54	21	0	33
	2008	67	32	1	35
	2009	69	32	2	37
	2010	23	7	0	16
	Total	213	92	3	121
Post-Camera Data	2010	12	2	0	10
	2011	32	9	0	23
	2012	36	15	0	21
	2013	38	10	0	28
	2014	46	12	0	34
	2015	46	10	0	36
	Total	210	58	0	152

ATE was installed and activated on I-380 on the following dates:
 Northbound at Diagonal Dr. SW Exit on June 12, 2010
 Northbound at J Ave NE overpass on August 27, 2010
 Southbound at J Ave NE overpass on October 16, 2010
 Southbound at 1st Ave. West off ramp on December 18, 2010

2010 crash numbers reflects the location and date of crash associated to the location and date of ATE activation.

Crashes are counted as an injury crash when any occupant or pedestrian sustains an injury during the event.
 Property Damage crashes result in no injuries, only damage to vehicles or other property.
 Crashes are counted as one or the other not both.



Fixed Speed Cameras Located I-380 between mm 19-22

By Crash Type

	Year	Number of Crashes	Non Collision	Rear-End	Side Swipe	Other	Unknown
Pre-Camera Data	2007	54	20	13	16	2	2
	2008	67	25	13	20	5	4
	2009	69	19	15	18	13	4
	2010	23	12	3	5	0	0
Post-Camera Data	2010	12	3	2	5	2	0
	2011	32	10	8	10	4	0
	2012	36	14	16	5	0	1
	2013	38	10	11	15	2	0
	2014	46	24	10	9	3	0
	2015	46	17	6	2	5	0



Citation Totals I-380

	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Diagonal					
Dr. SW NB	9190	10109	4218	8249	10775
J Ave. NB	36775	35327	36069	39402	62016
J Ave. SB	44775	38052	44529	56650	57265
1st Ave					
West Ramp					
SB	1226	986	1234	770	1186



Intersection: 1st Ave and 10th St East

Year	Number of Crashes	Injury Crashes	Property Crashes	Crash Types	RLR Violations Issued	Speed Violations Issued
2008	10	2	8	See Attached Diagrams	NA	NA
2009	15	2	13		NA	NA
2010*	6	1	5		NA	NA
2011	4	0	4		293	491
2012	12	0	12		541	374
2013	9	2	7		412	663
2014	13	3	10		696	1252
2015	9	3	6		700	1593

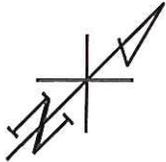
Camera Installed 3/14/2010

Corresponding crash diagrams provided by the City of Cedar Rapids Traffic Engineering Department

CITY OF CEDAR RAPIDS, IOWA
 TRAFFIC ENGINEERING DEPARTMENT
COLLISION DIAGRAM

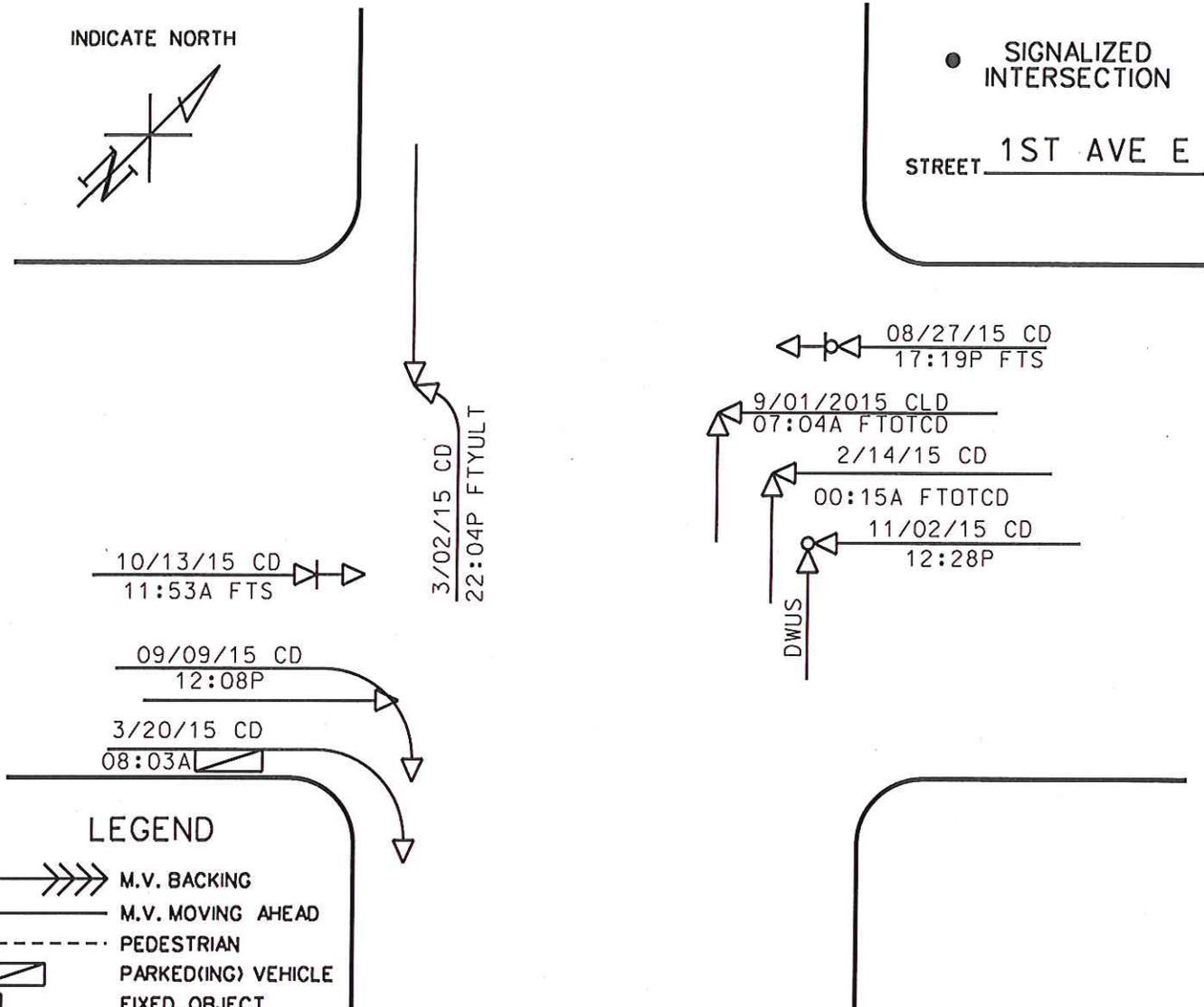
LOCATION 1ST AVENUE EAST AND 10TH STREET PERIOD 2015

INDICATE NORTH



● SIGNALIZED INTERSECTION

STREET 1ST AVE E



LEGEND

- ◄ → M.V. BACKING
- ◄ → M.V. MOVING AHEAD
- ◄ - - - PEDESTRIAN
- ◻ PARKED(ING) VEHICLE
- ◻ FIXED OBJECT
- ◄ < ◄ REAR END COLLISION
- ◄ > ◄ SIDE SWIPE
- ◄ ~ ~ ~ OUT OF CONTROL VEHICLE
- ◄ ● ◄ FATAL ACCIDENT
- ◄ ○ ◄ PERSONAL INJURY
- ◄ ◻ ◄ PROPERTY DAMAGE ONLY

TIME: A-A.M. P-P.M.
 PAVEMENT: D-DRY I-ICY W-WET
 WEATHER: C-CLEAR F-FOG R-RAIN
 S-SNOW SL-SLEET
 CL-CLOUDY

STREET 10TH STREET



Intersection: 1st Ave and L St West

Year	Number of Crashes	Injury Crashes	Property Crashes	Crash Types	RLR Violations Issued	Speed Violations Issued
2008	19	4	15	See Attached Diagrams	NA	NA
2009	11	2	9		NA	NA
2010*	20	3	17		NA	NA
2011	10	1	9		400	476
2012	6	1	5		929	578
2013	9	3	6		647	586
2014	8	2	6		428	561
2015	15	3	12		447	760

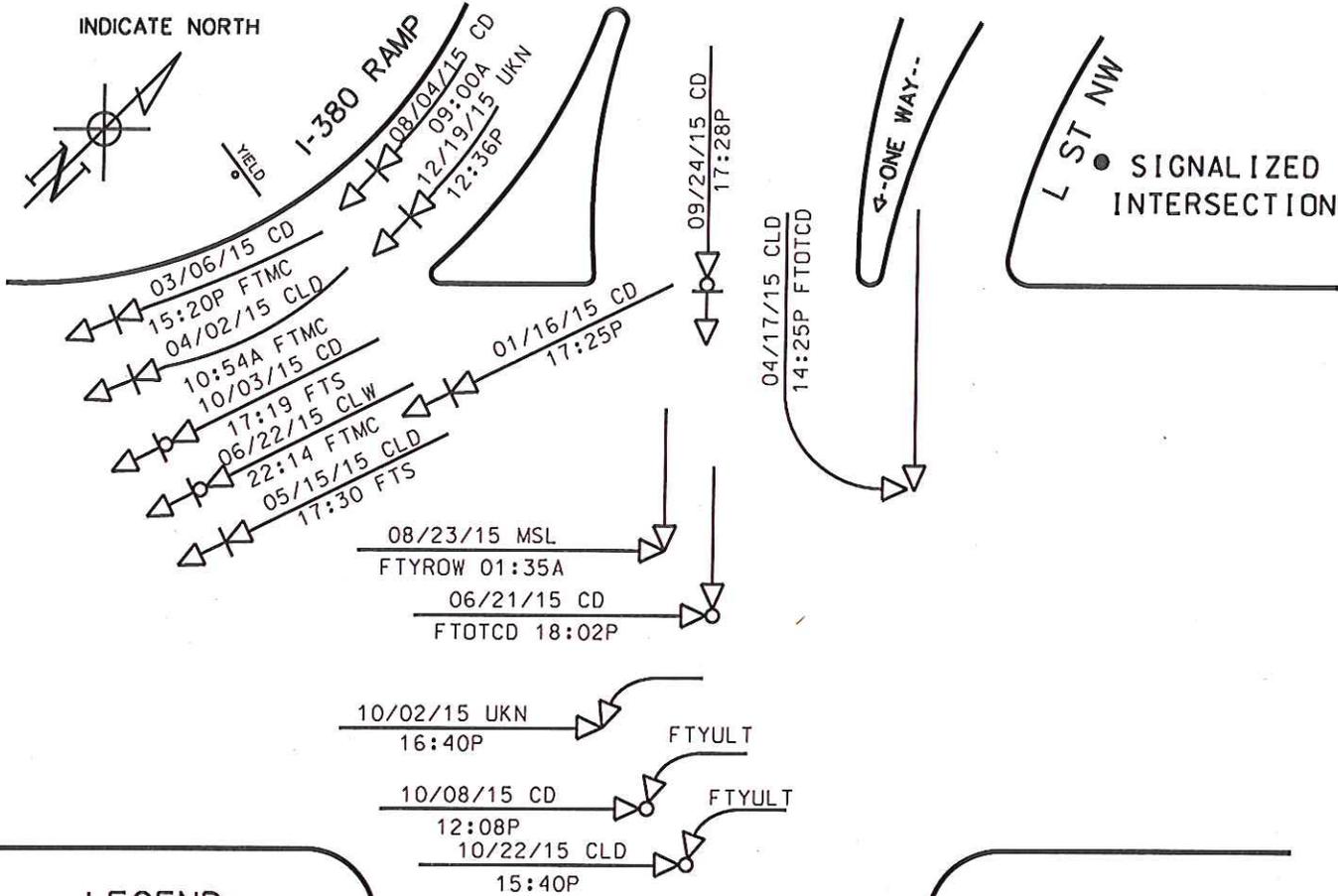
Camera Installed 6/1/2010

Corresponding crash diagrams provided by the City of Cedar Rapids Traffic Engineering Department

CITY OF CEDAR RAPIDS, IOWA
 TRAFFIC ENGINEERING DEPARTMENT
COLLISION DIAGRAM

LOCATION 1ST AVE. WEST & "L" ST. & I-380 SB OFF RAMP PERIOD 2015

INDICATE NORTH



LEGEND

- M.V. BACKING
- M.V. MOVING AHEAD
- PEDESTRIAN
- PARKED(ING) VEHICLE
- FIXED OBJECT
- REAR END COLLISION
- SIDE SWIPE
- OUT OF CONTROL VEHICLE
- FATAL ACCIDENT
- PERSONAL INJURY
- PROPERTY DAMAGE ONLY

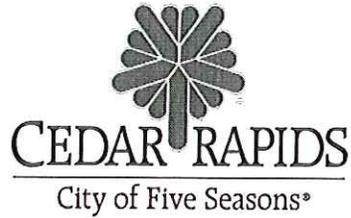
TIME: A-A.M. P-P.M.

PAVEMENT: D-DRY I-ICY W-WET

WEATHER: C-CLEAR F-FOG R-RAIN
 S-SNOW SL-SLEET
 CL-CLOUDY

STREET 1ST AVE. WEST
 ONE WAY

STREET L ST SW



Intersection: Williams and 16th SW

Year	Number of Crashes	Injury Crashes	Property Crashes	Crash Types	RLR Violations Issued	Speed Violations Issued
2008	13	3	10	See Attached Diagrams	NA	NA
2009	14	6	8		NA	NA
2010*	8	3	5		NA	NA
2011	6	1	5		425	1107
2012	7	0	7		509	1101
2013	5	0	5		637	1322
2014	6	0	6		379	985
2015	9	1	8		373	1355

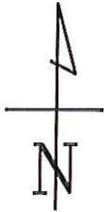
Camera Installed 12/18/2010

Corresponding crash diagrams provided by the City of Cedar Rapids Traffic Engineering Department

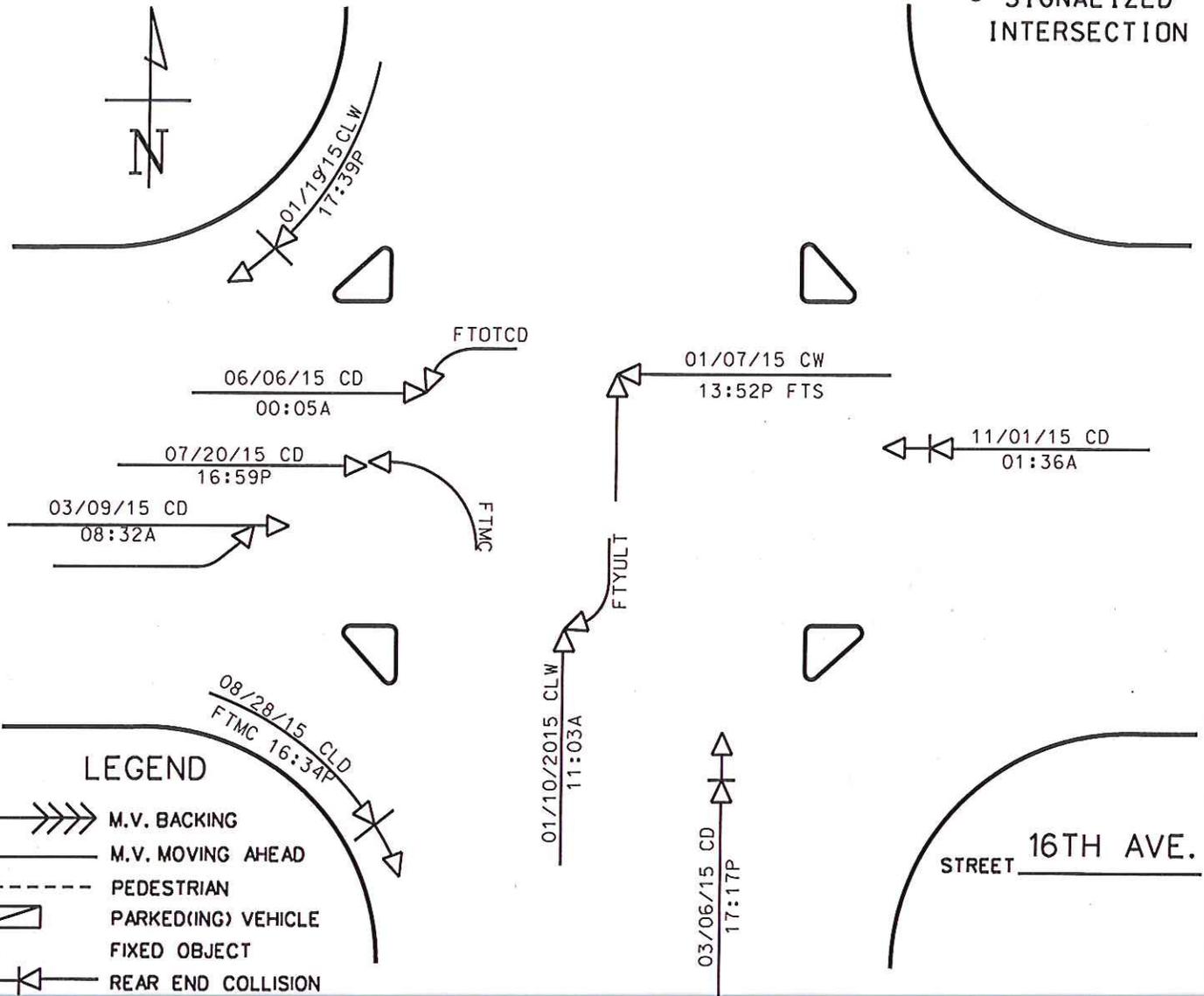
CITY OF CEDAR RAPIDS, IOWA TRAFFIC ENGINEERING DEPARTMENT COLLISION DIAGRAM

LOCATION 16TH AVE. & WILLIAMS BLVD. S.W. PERIOD 2015

INDICATE NORTH



● SIGNALIZED INTERSECTION



LEGEND

- M.V. BACKING
- M.V. MOVING AHEAD
- PEDESTRIAN
- PARKED(ING) VEHICLE
- FIXED OBJECT
- REAR END COLLISION
- SIDE SWIPE
- OUT OF CONTROL VEHICLE
- FATAL ACCIDENT
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TIME: A-A.M. P-P.M.
 PAVEMENT: D-DRY I-ICY W-WET
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STREET WILLIAMS BLVD.

STREET 16TH AVE.