

# Agenda Report

**TO:** CITY COUNCIL

**DATE:** July 23, 2001

**FROM:** City Manager

**SUBJECT:** A public hearing on the proposed use of automated red light enforcement and authorization to enter into a contract with Nestor Traffic Systems to provide Automated Red Light Enforcement services at five intersections.

## **RECOMMENDATION:**

It is recommended that the City Council:

1. Conduct a public hearing on the proposed use of automated red light enforcement in the city.
2. Authorize the City Manager to enter into a contract with Nestor Traffic Systems according to the deal points set forth in the background section of this report to provide Automated Red Light Enforcement services in the City. The proposed contract is exempt from competitive bidding pursuant to City Charter Section 1002(F), contracts for professional or unique services.

## **BACKGROUND:**

One of the largest causes of serious automobile accidents is related to red light violations. In fact, red light violators are responsible for more than 800 deaths and an estimated 200,000 injuries a year nationwide. In Pasadena, red light violators account for more than 50% of all recorded automobile accidents each year. The City has implemented a number of engineering solutions to reduce the number of red light related incidents. In pursuing a greater margin of success against red light violations, the City is proposing to establish an Automated Red Light Enforcement Program. Automated Red Light Enforcement has been proven to effectively reduce red light related incidents in every agency where it has been implemented. This program is being proposed with the goal of

improving public safety through a reduction in red light violations and a reduction in accidents due to red light violations.

The California Vehicle Code (CVC) Section 21455.5 authorizes the use of an automated enforcement system for red light violations provided that the system be identified using signs clearly indicating the system's presence at the intersection or by signs posted at all major entrances to the city. A public announcement of the automated traffic enforcement system is required to be made at least 30 days prior to commencement of the enforcement program and the city must also commence a program to issue only warning notices for 30 days prior to issuing citations through the automated enforcement system. CVC Section 21455.6 requires that the City Council conduct a public hearing on the proposed use of automated enforcement systems prior to entering into a contract for the use of those systems.

In November of 2000, staff from the Police Department Traffic Section and the Public Works and Transportation Department, Transportation Division, undertook the task of evaluating the benefits of an Automated Red Light Enforcement program in the City. On April 12, 2001, staff sent out Request for Proposals (RFP) to potential Automated Red Light Enforcement vendors. These vendors were identified through extensive research based on the most innovative technology and/or exceptional track record in providing Automated Red Light Enforcement services. On May 3, 2001, the City received four proposals for the installation and maintenance of an Automated Red Light Enforcement program at five intersections throughout the City.

Three vendors were invited during the week of June 18<sup>th</sup> to present their proposed system and operations to the City. One vendor was not invited back because their proposal did not successfully meet the selection criteria. The selection criteria as described in the RFP, was based on five categories: firm's abilities and references, program management, innovative technology, cost program and training and support program. Using these criteria, and oral interviews, staff selected Nestor Traffic Systems as the best vendor to provide an Automated Red Light Enforcement program in the City.

Nestor Traffic Systems Automated Red Light Enforcement program consists of several video cameras that are capable of digitally recording red light violators as they violate the red indication, encrypt and package these recordings in a video format ready for display.

In order to design an Automated Red Light Enforcement program, a list of intersections was developed. Based on factors such as recorded incidents, high traffic volume through the intersection and roadway classification, staff identified potential intersections. These intersections are:

- Marengo Avenue and Corson Street
- Lake Avenue and Union Street

- Orange Grove Avenue and Fair Oaks Avenue
- California Boulevard and Fair Oaks Avenue
- Lake Avenue and Washington Boulevard
- Fair Oaks Avenue and Washington Boulevard
- Lake Avenue and Mountain Street
- Washington Boulevard and Los Robles Avenue
- Fair Oaks Avenue and Del Mar Boulevard
- Foothill Boulevard and Sierra Madre Villa
- Lake Avenue and California Boulevard

Due to variable traffic conditions, the intersections that are ultimately selected to receive the automated red light enforcement devices may vary from this list.

The selected intersections show a history of carrying large traffic volumes and a consistent pattern of red light violations. As part of the program management, Nestor Traffic Systems will screen, process and send all citations electronically to the Police Department. Upon approval of the Police Department, the citations will then be sent to the courts. The courts will be equipped with devices capable of displaying digitally recorded videos to be used if needed for case presentation.

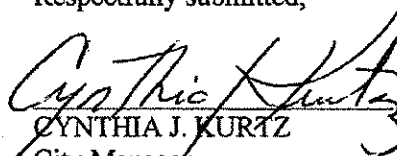
Nestor Traffic Systems is proposing a program that would allocate a portion of paid red light violation fees to Nestor Traffic Systems to install, maintain and administer the proposed automated red light enforcement program. Staff proposes to enter into a contract with Nestor that would provide these services, to the City at no net cost to the City and under the City's standard contract terms and conditions. Staff is currently negotiating with Nestor and, if an agreement cannot be reached with Nestor on a no net cost basis, we will return to City Council for further direction or authorization.

The deployment of the proposed Automated Red Light Enforcement Program may require additional staffing in the Police Department and possibly in the City Prosecutor's office. In that event staff will return to Council with an appropriate budgetary request including a funding plan.

**FISCAL IMPACT:**

Staff proposes to enter into a contract with Nestor Traffic Systems that would provide these services to the City at no net cost to the City. Staff is currently negotiating with Nestor Traffic Systems and, if agreement cannot be reached with Nestor Traffic Systems on a no net cost basis, we will return to City Council for further direction or authorization. The deployment of the proposed Automated Red Light Enforcement Program may require additional staffing in the Police Department and possibly in the City Prosecutor's office. In that event staff will return to Council with a budget request along with a plan to fund the positions.

Respectfully submitted,

  
CYNTHIA J. KURTZ  
City Manager

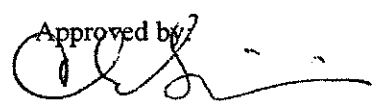
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CrossingGuard Performance Report: CA - Pasadena  
 Report Generated on 1/13/06

Report Covers Violation Dates 1/1/2005 through 12/31/2005

Executive Summary	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
Violations Recorded	4040	3552	1437	1372	412	200	105	11118
Event Review Discards - Discretionary	107	113	71	42	21	5	7	366
Event Review Discards - Controllable	1254	855	269	316	97	137	41	2969
Event Review Discards - Uncontrollable	1072	823	312	339	114	25	38	2723
DMV Review Discards - Uncontrollable	273	255	143	115	18	10	3	817
Violations Pending	0	0	0	0	0	0	0	0
Violations Citable	2588	2361	911	876	259	160	57	7212
Citations Issued	1334	1506	642	560	162	23	16	4243
Citations Issued as Percentage of Violations Citable	51.5%	63.8%	70.5%	63.9%	62.5%	14.4%	28.1%	58.8%
Affidavits Approved	269	290	120	99	26	2	0	806

Violations Discarded - Discretionary Factors	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
Exempt Vehicle	10	25	27	24	1	2	2	91
Funeral Procession	0	0	0	0	0	0	0	0
Grace Period	0	0	0	0	0	0	0	0
Officer Directing Traffic	0	1	0	0	6	0	4	11
Out of State Vehicle	97	87	44	18	14	3	1	264
Violation - System Testing	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>107</b>	<b>113</b>	<b>71</b>	<b>42</b>	<b>21</b>	<b>5</b>	<b>7</b>	<b>366</b>

Violations Discarded - Controllable Factors	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
Missing Required Element	0	0	0	0	0	0	0	0
Signal View Recording	9	2	2	13	1	1	0	28
Context View Recording	3	0	1	0	7	60	0	71
Front View Recording	21	66	40	33	5	10	1	176
Rear View Recording	14	17	1	8	1	0	1	42
Signal Image	0	5	0	0	0	0	0	5
Vehicle Image	185	123	19	68	12	6	3	416
Driver Image	908	562	161	142	53	51	33	1910
Plate Image	109	77	44	50	18	8	3	309
Mailing Requirement Incomplete	5	3	1	2	0	1	0	12
<b>TOTAL</b>	<b>1254</b>	<b>855</b>	<b>269</b>	<b>316</b>	<b>97</b>	<b>137</b>	<b>41</b>	<b>2969</b>

Violations Discarded - Uncontrollable Factors	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
DMV Driver Info Incomplete	13	17	13	10	0	1	2	56
DMV Mismatch	260	238	126	104	18	9	1	756
DMV Vehicle Info Incomplete	0	0	4	1	0	0	0	5
<b>DMV REVIEW SUBTOTAL</b>	<b>273</b>	<b>255</b>	<b>143</b>	<b>115</b>	<b>18</b>	<b>10</b>	<b>3</b>	<b>817</b>
Face Obstructed	255	144	48	72	36	3	3	561
Lane Change	237	230	61	84	32	10	9	663
Plate Glare	3	1	1	10	0	0	0	15
Plate Obstructed/Obscured	13	21	7	4	3	0	0	48
Signal Glare	0	0	0	0	0	0	0	0
Signal Obstructed	0	0	0	0	0	0	0	0
Speed Change	266	226	50	85	18	7	20	672
Temporary Plate	117	109	57	54	14	3	3	357
Vehicle Glare	0	0	1	0	0	0	0	1
Vehicle Missing Plate	44	45	12	21	2	0	0	124
Vehicle Obstructed/Obscured	17	26	5	4	0	0	1	53
Vehicle Too Large for Framing	5	2	4	2	0	0	2	15
Windshield Glare	115	19	66	3	9	2	0	214
<b>EVENT REVIEW SUBTOTAL</b>	<b>1072</b>	<b>823</b>	<b>312</b>	<b>339</b>	<b>114</b>	<b>25</b>	<b>38</b>	<b>2723</b>
<b>TOTAL</b>	<b>1346</b>	<b>1078</b>	<b>455</b>	<b>454</b>	<b>132</b>	<b>35</b>	<b>41</b>	<b>3540</b>

**CrossingGuard Performance Report: CA - Pasadena**  
**Report Generated on 1/13/07**

Report Covers Violation Dates 1/1/2006 through 12/31/2006

Executive Summary	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
Violations Recorded	4002	1556	1658	1488	926	5385	1857	16872
Event Review Discards - Discretionary	129	88	91	58	50	144	547	1107
Event Review Discards - Controllable	1121	272	277	331	304	1392	376	4073
Event Review Discards - Uncontrollable	1279	434	528	340	244	929	373	4127
DMV Review Discards - Uncontrollable	241	120	139	130	56	600	97	1383
Violations Pending	5	2	0	4	2	12	1	26
Violations Citable	2348	912	900	956	573	3700	839	10228
Citations Issued	1227	640	623	625	269	2308	463	6155
Citations Issued as Percentage of Violations Citable	52.3%	70.2%	69.2%	65.4%	46.9%	62.4%	55.2%	60.2%
Affidavits Approved	202	113	94	128	42	406	72	1057

Violations Discarded - Discretionary Factors	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
Exempt Vehicle	10	41	45	30	13	31	116	286
Funeral Procession	0	0	0	0	2	43	243	288
Grace Period	0	0	0	0	0	0	0	0
Officer Directing Traffic	1	1	2	0	5	4	167	180
Out of State Vehicle	118	46	44	28	30	65	20	351
Violation - System Testing	0	0	0	0	0	1	0	1
<b>TOTAL</b>	<b>129</b>	<b>88</b>	<b>91</b>	<b>58</b>	<b>50</b>	<b>144</b>	<b>546</b>	<b>1106</b>

Violations Discarded - Controllable Factors	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
Missing Required Element	0	0	0	0	0	0	0	0
Signal View Recording	4	2	1	45	6	29	7	94
Context View Recording	28	4	4	6	39	344	6	431
Front View Recording	21	5	6	5	45	88	19	189
Rear View Recording	8	3	3	5	3	18	9	49
Signal Image	0	0	0	0	0	0	0	0
Vehicle Image	314	75	70	92	48	210	63	872
Driver Image	643	162	160	93	140	648	238	2084
Plate Image	101	16	32	84	22	49	30	334
Mailing Requirement Incomplete	2	5	1	1	1	6	4	20
<b>TOTAL</b>	<b>1121</b>	<b>272</b>	<b>277</b>	<b>331</b>	<b>304</b>	<b>1392</b>	<b>376</b>	<b>4073</b>

Violations Discarded - Uncontrollable Factors	Lake NB @ Union	Lake SB @ Union	Marengo NB @ Union	Marengo SB @ Union	Union WB @ Marengo	San Gabriel NB @ Foothill	San Gabriel SB @ Foothill	Total
DMV Driver Info Incomplete	15	12	16	10	3	29	4	89
DMV Mismatch	225	107	123	120	53	569	93	1290
DMV Vehicle Info Incomplete	1	1	0	0	0	2	0	4
<b>DMV REVIEW SUBTOTAL</b>	<b>241</b>	<b>120</b>	<b>139</b>	<b>130</b>	<b>56</b>	<b>600</b>	<b>97</b>	<b>1383</b>
Face Obstructed	336	71	80	70	90	177	119	943
Lane Change	284	94	110	59	18	103	50	718
Plate Glare	9	1	2	19	1	12	3	47
Plate Obstructed/Obscured	14	8	6	8	4	19	15	74
Signal Glare	0	0	0	1	3	0	0	4
Signal Obstructed	0	0	0	0	0	0	0	0
Speed Change	338	129	107	95	30	54	84	837
Temporary Plate	95	49	46	45	25	104	29	393
Vehicle Glare	5	0	8	0	0	2	0	15
Vehicle Missing Plate	48	13	25	27	5	58	12	188
Vehicle Obstructed/Obscured	31	12	9	3	2	83	4	144
Vehicle Too Large for Framing	22	15	25	8	9	87	26	192
Windshield Glare	97	42	110	5	57	230	31	572
<b>EVENT REVIEW SUBTOTAL</b>	<b>1279</b>	<b>434</b>	<b>528</b>	<b>340</b>	<b>244</b>	<b>929</b>	<b>373</b>	<b>4127</b>
<b>TOTAL</b>	<b>1520</b>	<b>554</b>	<b>667</b>	<b>470</b>	<b>300</b>	<b>1529</b>	<b>470</b>	<b>5510</b>

CrossingGuard Performance Report: CA - Pasadena

Report Generated on 1/4/2008

Report Covers Violation Dates 1/1/2007 through 12/31/2007

Executive Summary table with columns for various violation categories like Violations Recorded, Event Review Discards, DMV Review Discards, etc., and columns for agency locations.

Violations Discarded - Discretionary Factors

Table showing discretionary factors for violations, including categories like Construction, Exempt Vehicle, Funeral Procession, etc.

Violations Discarded - Controllable Factors

Table showing controllable factors for violations, including categories like Signal View Recording, Context View Recording, Front View Recording, etc.

Violations Discarded - Uncontrollable Factors

Table showing uncontrollable factors for violations, including categories like DMV Driver Info, DMV Mismatch, DMV Vehicle Info, etc.







CrossingGuard Performance Report: CA - Pasadena

Report Covers Violation Dates 1/1/2019 through 12/31/2019

Table with columns for various locations (San Gabriel, Lake, Marengo) and violation categories (Executive Summary, Violations Recorded, Disciplinary, Controllable, Uncontrollable, etc.).

Violations Discarded - Disciplinary Factors

Table with columns for various locations and StatisticType (Construction, Exempt Vehicle, Funeral Procession, etc.).

Violations Discarded - Controllable Factors

Table with columns for various locations and StatisticType (Message Required Element, Signal View Recording, Conflict View Recording, etc.).

Violations Discarded - Uncontrollable Factors

Table with columns for various locations and StatisticType (DMV Driver Info Incomplete, DMV Information, DMV Vehicle Info Incomplete, etc.).

CrossingGuard Performance Report: CA - Pasadena

Report Covers Violation Dates 1/1/2011 through 8/31/2011

Executive Summary table with columns for various locations (San Gabriel NB/SB, Lake NB/SB, Marango NB/SB) and violation counts (Violations Recorded, Event Review Discards - Discretionary, Controllable, Uncontrollable, DMV Review Discards - Uncontrollable, Citations Issued, etc.).

Violations Discarded - Discretionary Factors

Table with columns for StatisticType and various location/turn combinations, listing discretionary factors like Construction, Exempt Vehicle, Funeral Procession, etc.

Violations Discarded - Controllable Factors

Table with columns for StatisticType and various location/turn combinations, listing controllable factors like Missing Required Element, Signal View Recording, Context View Recording, etc.

Violations Discarded - Uncontrollable Factors

Table with columns for StatisticType and various location/turn combinations, listing uncontrollable factors like DMV Driver Info Incomplete, DMV Mismatch, DMV Vehicle Info Incomplete, etc.