# METROPOLITAN TRANSPORTATION AUTHORITY LOS ANGELES COUNTY





# Blue Line Monthly Report



July 2018



Prepared by: Conduent State and Local Solutions Confidential



### Los Angeles County MTA Blue Line Photo Enforcement Services July 2018 Monthly Report

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### Executive Summary

Conduent is pleased to present the monthly report for the Los Angeles County Metropolitan Transportation Authority's Photo Enforcement Services. This reformatted report has been designed to effectively communicate and reflect useful monthly operations statistics and overall performance. The report covers a detailed activity profile for the active intersections where the automated traffic enforcement systems are installed.

In July 2018, the photo enforcement project for MTA Blue Line captured a total of 8,027 events. The project recorded 1,206 possible violations and 6,821 non-violations. The LA County Sherriff's Department issued 462 citations reflecting a 38% issuance rate and a controllable issuance rate of 81%. The following controllable non-issued violations occurred for these reasons and are being addressed:

65 Framing of Car/3 Framing of Driver / 1 Framing of Plate

These events are caused by vehicle movement not allowing the image to be framed as needed for evidence; these events will be reviewed and adjustments will be made if possible.

19 Data Entry / 1 Equipment Malfunction

Both of these events occur when a photo or video do not display; this issue has been addressed and firmware update should fix. Progress will be monitored.

19 Dark Interior

Adjustments have been made to the cameras to avoid this error and we have had a 75% improvement since last month.

1 Clarity of Driver

This is caused by windshield obstruction due to dirt, sunlight, or tinting. We will adjust camera exposure setting and monitor progress.

### In the News - Photo Enforcement Around the Country

### **California Deploys Cameras to Catch Carpool Cheaters**

A camera system on an undisclosed stretch of Bay Area freeway is on the lookout for drivers ignoring the rules of the multi-passenger lanes. BY MICHAEL CABANATUAN, SAN FRANCISCO CHRONICLE / APRIL 3, 2018

(TNS) — On an undisclosed Bay Area freeway over the past couple of weeks, a camera system has been counting the people inside every vehicle in the carpool lane in an experiment to detect cheaters.

No tickets or warnings are being issued, but that could change if Bay Area transportation officials are convinced that the technology is the next-generation enforcement answer to a growing number of scofflaws who, despite the risk of a heavy fine, use the region's restricted carpool lanes to shave time off their commute.

Studies by <u>regional transportation agencies</u> and <u>The Chronicle</u> have found that Bay Area carpool lanes reserved for vehicles with two or more occupants — three or more on Interstate 80 — and clean-energy cars are commonly crowded with solo drivers who have no business being there. Tickets run \$490.

In recent months, the California Highway Patrol has increased enforcement, assigning dedicated strike teams working overtime shifts to catch the cheats, but the agency has been unable to abate the problem. Lanes created to move at a decent clip are sometimes as sluggish as the regular lanes, triggering rising frustration in drivers legitimately using the carpool lane and in those stuck in the slower lanes watching cheaters pass them by.

"If the system breaks down because there's no trust in the system and everyone's cheating, that's a problem. I don't think we can just sit by and do nothing," said Randy Rentschler, a spokesman for the Metropolitan Transportation Commission, which oversees carpool-lane operations for the Bay Area.

The camera technology being tested comes from one of three firms with systems that MTC has decided to look at. All three claim their automated systems can snap photos of a passing vehicle, accurately count the number of passengers and send citations to violators. All three will be tested in turn. The MTC will review the results for reliability and effectiveness sometime this summer.

"The goal here is to demonstrate that (the technology) ... can work with a high degree of accuracy," Rentschler said.

Even if the technology proves effective, it could still be a long road to employing the system on Bay Area freeways. The MTC would need state legislation allowing passenger-counting cameras to be used to issue citations. And they'd have to overcome privacy concerns about cameras peering into vehicles, reading license plates and keeping records of the numbers of occupants.

But first, Rentschler said, "We can't even have the political discussions until we prove that we can do it."

Drivers interviewed last week at a Berkeley gas station near Interstate 80, which has the Bay Area's busiest carpool lanes, agreed with the need for better enforcement, but some were leery.

(For full article go to http://www.govtech.com/transportation/California-Deploys-Cameras-to-Catch-Carpool-Cheaters.html)



10	00%														
	30% 466	509	529	469	518	422	462							Citations	
	60%	2 66	94	91	116	95	111							□ Controllable	Non-Issued
	40%				654	573	633							Uncontrollab	ble Non-Issued
	20% 418	418	452	441											
	0%		Mar 40	Apr 40	May 40	lue 40	L.1.40	0	0	0	0	0	Year to I	Date Average	
Events Non-Violations	Jan-1		Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity	%	
Violations	7,084 986		7,244 1,075	6,107 1,001	6,426 1,288	6,168 1,090	6,821 1,206						6,538 1,091	86% 14%	
	otal: 8,070	0 6,909	8,319	7,108	7,714	7,258	8,027						7,629	100%	
Violations Uncontrollable Non-Issue	ed 418	418	452	441	654	573	633						513	47%	
Controllable Non-Issued	102	66	94	91	116	95	111						96	9%	
Citations	466 otal: 986		529 <b>1,075</b>	469 <b>1,001</b>	518 <b>1,288</b>	422 <b>1,090</b>	462 1,206						482	44%	
Non-Violations	6		1,010	1,001	1,200	1,000	1,200						1,001	10070	
Emergency Vehicle Non- Issuable	20	22	19	24	21	28	24						23	0%	
Emergency Vehicle PD	0	1	1	1	2	3	0						2	0%	
Intersection Control in	0	0	0	0	1	2	0						2	0%	
Progress- PD Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred	5,238		5,153	4,213	4,432	4,064	4,878						4,580	70%	
Rear Axle Activation	0	1	1	0	0	1	0						1	0% 0%	
Right Turn- No Violation Test Shot	0		0 2,068	0 1,868	1,966	0 2,068	1,918						1,932	30%	
Amber Time Low	0	0	0	0	1	0	0						1	0%	
Vehicle Stopped- PD	3 otal: 7,084	1 4 5,916	2 <b>7,244</b>	1 6,107	3 6,426	2 6,168	1 6,821						2 6,541	0% 100%	
	Non-Issued Vie	-	7,244	0,107	0,420	0,100	0,021						0,341	100 /8	
Administrative Dismissal	0	0	0	0	0	0	0						0	0%	
Car Obstructed Conditions Beyond Contr	26 ol 0	28	24 9	28	27 0	25 0	25 0						26 9	5% 2%	
Driver Identity Unclear	60	53	26	31	55	27	38						41	7%	
Driver Obstructed Exposed	31 0	27	34	36	43 0	40 0	34 0						35 0	6% 0%	
Glare on Plate	48	31	20	12	17	16	21						24	4%	
Glare on Windshield	19	30	28	47	48	65	67						43	8%	
Illegible Plate Interest of Justice- PD	11	10	14 0	6	9 0	12 0	11 0						10	2% 0%	
Image Quality- PD	3	2	3	11	13	9	7						7	1%	
Issuance Criteria Not Met PD	t- 2	5	11	8	0	0	1						5	1%	
No Warning Sign	0	0	0	0	0	0	0						0	0%	
No Plate	149		143	164	183	207	185						172	31%	
No Speed Captured Obstruction In Photo- PD	0 23	0 25	0	0 22	0 19	0 14	0 19						0 19	0% 3%	
Out of State	17	8	16	15	16	15	17						15	3%	
Plate Obstructed Short Yellow- PD	28 0	23	16 0	17 0	25 0	24 0	27 0						23	4% 0%	
Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired	0	0	0	0	0	0	0						0	0% 23%	
TSB No Hit	0 otal: 418	0 <b>418</b>	94 <b>452</b>	43 <b>441</b>	199 <b>654</b>	119 <b>573</b>	181 <b>633</b>						127 559	100%	
Controllable N	on-Issued Viola	itions	-	-											
Cnduent Expire Clarity of Plate	0	0	0	0	0	0	0						0	0% 0%	
Clarity of Driver	0	0	0	0	0	0	1						1	1%	
Dark Interior Data Box Related- PD	16 0	4	6	21 0	14 0	19 0	19 0						14	14% 0%	
Data Box Data Error- PD		0	0	0	0	0	0						0	0%	
Data Entry Error	19	8	14	12	31	11	19						16	16%	
Emergency Vehicle Issue Exposed	e 0 0	0	0	0	0	0	0						0	0% 0%	
Equipment Malfunction	4	8	7	1	2	0	1						4	4%	
Framing- PD Framing of Car	0 55	0 43	0 65	0 54	0 67	0 63	0 65						0 59	0% 59%	
Framing of Driver	6	2	0	0	1	1	3						3	3%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate Reject Expired	0	0	0	0	0	0	1						1	1% 0%	
Speed Not Determined	2	1	2	3	1	1	2						2	2%	
T	otal: 102	66	94	91	116	95	111						99 Voor to F	100% Date Average	
Summary Metrics Daily Average Vehicle Pa		0	0	0	0	0	0						rear to L	0	
Average Issued Speed	17	-	17	16	16	17	17							17	
Average Issued Red Seconds	48.0	76.0	12.0	110.6	14.1	44.8	44.6							50.0	
Citiation / Violation Issual	nce	E10/	400/	170/	100/	200/	200/							45%	
Rate	47%		49%	47%	40%	39%	38%								
Controllable Issuance Ra	ite 82%	89%	85%	84%	82%	82%	81%						1 8	33%	

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# Los Angeles County MTA Blue Line Approach Summary Report All Locations 2018



						_				
		8	3		1					
	4			3		3	2			
		2								
			2	1						
		6			1	2	1			
	1		1	1				0	0	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	С
Non-Violations	265	286	287	307	327	307	322	Aug-10	000-10	
Violations	5	16	6	5	2	5	3			
Total:	270	302	293	312	329	312	325			
Violations										
Uncontrollable Non-Issued	0	6	1	1	1	2	0			
Controllable Non-Issued	1	2	2	1	1	3	1			
Citations Total:	4 5	8 16	3 6	3 5	0 2	0 5	2 3			
Non-Violations	5	10	U	5	2	5	3			
Emergency Vehicle Non-	0	0	0	0	0	0	0			
Issuable										
Emergency Vehicle PD Intersection Control in	0	0	0	0	0	0	0			
Progress- PD	0	0	0	0	0	0	0			
Gate Down/ No Train	0	0	0	0	0	0	0			
No Violation Occurred	121	133	119	155	158	138	162			
Rear Axle Activation	0	0	0	0	0	0	0			
Right Turn- No Violation Test Shot	0 143	0	0 168	0	0 169	0 169	0			
Amber Time Low	0	153 0	0	152 0	0	0	160 0			
Vehicle Stopped- PD	1	0	0	0	0	0	0			
Total:	265	286	287	307	327	307	322			
Uncontrollable Non-I	ssued Violations	\$								
Administrative Dismissal	0	0	0	0	0	0	0			
Car Obstructed	0	0	0	0	0	0	0			
Conditions Beyond Control	0	0	0	0	0	0	0			
Driver Identity Unclear Driver Obstructed	0	0	0	0	0	0	0			
Exposed	0	0	0	0	0	0	0			
Glare on Plate	0	2	0	0	0	0	0			
Glare on Windshield	0	0	0	0	0	0	0			
Illegible Plate	0	0	0	0	0	0	0			
Interest of Justice- PD	0	0	0	0	0	0	0			
Image Quality- PD	0	0	0	0	0	0	0			
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0			
No Warning Sign	0	0	0	0	0	0	0			
No Plate	0	2	0	0	1	2	0			
No Speed Captured	0	0	0	0	0	0	0			
Obstruction In Photo- PD Out of State	0	0	0	0	0	0	0			
Plate Obstructed	0	1	0	0	0	0	0			
Short Yellow- PD	0	0	0	0	0	0	0			
Third Party Damage	0	0	0	0	0	0	0			
TSB Epired	0	0	0	0	0	0	0			
TSB No Hit	0	0	1	0	0	0	0			
Total:	0	6	1	1	1	2	0			
Controllable Non-Iss			•		2	-	<u>^</u>			
Cnduent Expire Clarity of Plate	0	0	0	0	0	0	0			
Clarity of Driver	0	0	0	0	0	0	0			
Dark Interior	0	0	0	0	0	0	0			
Data Box Related- PD	0	0	0	0	0	0	0			
Data Box Data Error- PD	0	0	0	0	0	0	0			
Data Entry Error	0	0	0	0	0	1	0			
Emergency Vehicle Issue	0	0	0	0	0	0	0			
Exposed	0	0	0	0	0	0	0			
Equipment Malfunction Framing- PD	0	0	0	0	0	0	0			
Framing of Car	1	2	2	1	1	2	1			
Framing of Driver	0	0	0	0	0	0	0			
Operator Error	0	0	0	0	0	0	0			
Framing of Plate	0	0	0	0	0	0	0			
Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined	0	0	0	0	0	0	0			
Total:	1	2	2	1	1	3	1			
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0			
Average Issued Speed	8	8	8	0	0	0	0 12			
Average Issued Red Seconds	175.8	555.6	5.5	0.0	0.0	0.0	281.0			
Citiation / Violation Issuance Rate	80%	50%	50%	60%	0%	0%	67%			
Controllable Issuance Rate	80%	80%	60%	75%	0%	0%	67%			
	0070	0070	0070	10/0	070	070	0170			

# Los Angeles County MTA Blue Line Approach Summary Report Location 322: WB 20th St @ Long Beach Ave Straight Through Movements

100% 80% Citations 60% Controllable Non-Issued 40% Uncontrollable Non-Issued 20% 0 0% Year to Date Average Quantity % Nov-18 Dec-18 Oct-18 300 98% 2% 6 306 100% 28% 2 2 20% 51% 4 100% 8 0% 0 0 0% 0 0% 0% 0 141 47% 0% 0 0% 0 159 53% 0 0% 0% 1 301 100% 0% 0 0 0% 0 0% 0 0% 0% 0 0% 0 30% 2 0% 0 0% 0 0 0% 0% 0 0% 0 0% 0 2 25% 0% 0 0% 0 15% 15% 1 0% 0 0% 0 0% 0 15% 1 100% 7 0 0% 0% 0 0% 0 0% 0 0% 0 0% 0 1 41% 0% 0 0% 0 0% 0 0 0% 59% 1 0% 0 0 0% 0% 0 0% 0 0% 0 2 100% Year to Date Average 0 9 254.5 61% 72%



100%										
				5		6	9			
80%	12	22	11		12	5				
60%	4			9		5	6			
40%		6	6		4					
20%	14			10	12	14	15			
		16	8							
0%								0	0	
Events Non-Violations	Jan-18 118	Feb-18 108	Mar-18 127	Apr-18 117	May-18 122	Jun-18 150	Jul-18 152	Aug-18	Sep-18	Oc
Violations	30	44	25	24	28	25	30			
Total:		152	152	141	150	175	182			
Violations								2		
Uncontrollable Non-Issued	14	16	8	10	12	14	15			
Controllable Non-Issued Citations	4 12	6 22	6 11	9 5	4 12	5	6 9			
Total:		44	25	24	28	25	30			
Non-Violations	2		1					2		
Emergency Vehicle Non- Issuable	0	0	1	0	0	0	0			
Emergency Vehicle PD	0	0	0	0	0	0	0			
Intersection Control in Progress- PD	0	0	0	0	0	0	0			
Gate Down/ No Train	0	0	0	0	0	0	0			
No Violation Occurred	29	31	30	28	28	54	47			
Rear Axle Activation	0	0	0	0	0	0	0			
Right Turn- No Violation Test Shot	0 87	0 77	0 96	0 89	0 94	0 96	0 105			
Amber Time Low	0	0	0	0	94 0	0	0			
Vehicle Stopped- PD	2	0	0	0	0	0	0			
Total:	ξ	108	127	117	122	150	152			
Uncontrollable Non- Administrative Dismissal	lssued Violations 0	s 0	0	0	0	0	0			
Car Obstructed	0	3	2	1	0	2	0			
Conditions Beyond Control	0	0	0	0	0	0	0			
Driver Identity Unclear	3	0	0	0	0	0	0			
Driver Obstructed Exposed	2	1	0	1	0	0	2			
Glare on Plate	1	2	0	0	0	0	0			
Glare on Windshield	0	0	0	3	0	1	2			
Illegible Plate	0	0	0	0	0	0	0			
Interest of Justice- PD Image Quality- PD	0	0	0	0	0	0	0			
Issuance Criteria Not Met- PD		0	0		0	0	1			
	0			0			•			
No Warning Sign No Plate	0 4	0 7	0	0 4	0 2	0	0 2			
No Speed Captured	0	0	0	0	0	0	0			
Obstruction In Photo- PD	0	0	0	0	0	0	0			
Out of State	0	0	0	0	1	1	1			
Plate Obstructed Short Yellow- PD	2	3	1	1	1 0	2	3 0			
Third Party Damage	0	0	0	0	0	0	0			
TSB Epired	0	0	0	0	0	0	0			
TSB No Hit	0	0	3	0	8	5	4			
Total: Controllable Non-Iss	2	16	8	10	12	14	15			
Cnduent Expire	0	0	0	0	0	0	0			-
Clarity of Plate	0	0	0	0	0	0	0			
Clarity of Driver	0	0	0	0	0	0	0			
Dark Interior Data Box Related- PD	1	0	0	0	1	2	0			
Data Box Data Error- PD	0	0	0	0	0	0	0			
Data Entry Error	0	0	0	0	0	0	0			
Emergency Vehicle Issue	0	0	0	0	0	0	0			
Exposed Equipment Malfunction	0	0	0	0	0	0	0			
Framing- PD	0	0	0	0	0	0	0			
Framing of Car	3	6	6	7	3	2	5			
Framing of Driver	0	0	0	0	0	0	1			
Operator Error Framing of Plate	0	0	0	0	0	0	0			
Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined	0	0	0	1	0	1	0			
Total:	4	6	6	9	4	5	6			
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0			
Average Issued Speed	0 16	14	16	16	19	19	18			
Average Issued Red Seconds	250.1	498.0	7.3	1750.9	6.2	20.8	19.7			
Citiation / Violation Issuance Rate	40%	50%	44%	21%	43%	24%	30%			
Controllable Issuance Rate	75%	79%	65%	36%	75%	55%	60%			

# Los Angeles County MTA Blue Line Approach Summary Report Location 421: EB Vernon Ave @ Long Beach Ave Straight Through Movements

Citations □ Controllable Non-Issued Uncontrollable Non-Issued Year to Date Average Quantity % Nov-18 Dec-18 Oct-18 128 81% 29 19% 157 100% 43% 13 6 19% 37% 11 100% 29 1% 1 0 0% 0 0% 0% 0 35 27% 0 0% 0% 0 92 71% 0 0% 2% 2 130 100% 0% 0 8% 2 0 0% 3 12% 2 6% 0% 0 2 6% 8% 2 0% 0 0 0% 8% 2 4% 1 0% 0 3 14% 0% 0 0% 0 4% 2 8% 0% 0 0% 0 0% 0 21% 5 100% 24 0 0% 0% 0 0% 0 16% 1 0% 0 0 0% 0 0% 0 0% 0% 0 0% 0 0 0% 58% 5 13% 1 0 0% 0% 0 0% 0 13% 1 100% 8 Year to Date Average 0 17 364.7 36% 63%



app         a         a         b         a         b         a         b         a         b         a         b         a         b         a         b         a         b         a         b         a         b         a         b         a	100% -										
No.         No. <td>80% -</td> <td>6</td> <td>4</td> <td>6</td> <td>4</td> <td>8</td> <td>10</td> <td>9</td> <td></td> <td></td> <td></td>	80% -	6	4	6	4	8	10	9			
AB         I <thi< th="">         I         I         I</thi<>		5	3		5		9	13			
200         14         10         0         15         40         20         20         20           Event         Jon - 10         Perol 16         Marci 10         Marci 1	60% -			4		20					
2%         1         4	40% -				15						
Image of the sector o	20% -			9		15	28	23			
Events         Nam 16         Page 18         Mar 16         Mar 16         Mar 18	0%								0	0	
Non-Violations190194110143184124129120Total:21514713014720917117417414100161528282818141001615282828181863452091318		Jan-18	Feb-18	Mar-18	Apr-18	May-18	.lun-18	.lul-18	• 	Sep-18	0
Total151150269171174Uncontrollate Non-leased140015152323Chalona Non-leased534620013Chalona Non-leased5771924434745Chalona Non-lease57719200000Tergenary Vehice PO0000000000Regrena Vehice PO000 <t< td=""><td></td><td></td><td>2</td><td>1</td><td>•</td><td>-</td><td></td><td></td><td>//dg 10</td><td></td><td></td></t<>			2	1	•	-			//dg 10		
Valuations         Visite         Vis	olations	25	17	19	24	43	47	45			
Uncentrolized Non-based         14         10         9         15         16         28         23         23           Charlons         6         4         6         4         8         10         0           Charlons         6         4         6         4         8         10         0           Charlons         5         7         19         24         43         47         45           Terregrony Vehicle PD         0		215	151	130	167	209	171	174			
Contractions53452091313Tractar Values251719244347434748Tractar Values3221213474813Senable3222121131414141414Enrogency Values PD0000000000141515161516			40		45	45	00	00			
Chail646481099New Valuence9000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Description Vehice         Security         Vehice         Security         Vehice         Security         Vehice         Security											
Emergency Vahicle Non- issuable         3         2         2         2         1         2         1           Emergency Vahicle PO         0 <t< td=""><td>Total:</td><td>25</td><td>17</td><td>19</td><td>24</td><td>43</td><td>47</td><td>45</td><td></td><td></td><td></td></t<>	Total:	25	17	19	24	43	47	45			
isauabic intersection Control in Intersection Control in Intersection Control in Intersection Control in Intersection Control in Intersection Control in 				1							1
Energency Vehicle PD Intersection Carrier Programs. PO Get bown No Train Intersection Carrier Set bown No Train Intersection Carrier Set bown No Train Intersection Carrier Set bown No Train Intersection Carrier Intersection Carrier Set bown No Train Intersection Carrier Intersection Carrier Int		3	2	2	2	1	2	1			
progress PD         0         0         0         0         0         0           No Violation Occurred         100         51         13         51         70         19         35         Image: Constraint of the		0	0	0	0	0	0	0			
Gare Down No Train         0         0         0         0         0           No Violation Occurred         100         61         133         51         70         190         35.           Bar Ask Activation         0         0         0         0         0         0         0           Task Shot         87         81         95         90         95         103         63.           Arbite Time Low         0         0         0         0         0         0         0           Valide ShotpsetPD         0         11         13         166         124         129           Concorticulate Mortsecured         0         0         0         0         0         0           Concorticulate Mortsecured         0         0         0         0         0         0           Concorticulate Mortsecured         0         0         0         0         0         0         0           Concorticulate Mortsecured         0         0         0         0         0         0         0           Concorticulate Mortsecured         0         0         0         0         0         0         0         0		0	0	0	0	0	0	0			
No Valoition         000         61         13         51         70         19         35           Rer Avie Action         0		0	0	0	0	0	0	0			
Right Turn-No Violation         0         0         0         0         0         0         0           Test Shot         87         81         95         90         95         103         93           Arber Tme Low         0         0         0         0         0         0         0           Total:         190         134         111         143         166         124         129           Arbitartab Poinssal         0         0         0         0         0         0         0           Cardostructed         0         1         3         0         0         0         0           Conditions Bay and Control         0         0         0         0         0         0         0           Conditions Bay and Control         0         0         0         0         0         0         0         0           Diver Identity Unchen         1         1         3         0         0         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0											
Test Shot         67         61         95         90         95         103         93           Araber Time Low         0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Anbar Time Low         0         0         0         0         0         0           Yohicle Stopped-PD         0         0         134         111         143         166         124         129           Lincontrollable Non-Issued Wolations           0	5										
Vehicle Stopped-PD         0         0         111         143         166         124         129           Uncontrollable Mondissaud Violations											
Total:         190         134         111         143         166         124         129           Uncontrollable Non-Issued Violations  <											
Administrative Dismissal         0 <td></td> <td>190</td> <td>134</td> <td>111</td> <td>143</td> <td>166</td> <td>124</td> <td>129</td> <td></td> <td></td> <td></td>		190	134	111	143	166	124	129			
Car Obstructed         0         1         3         0         0         2         0           Conditions Beyond Control         0			-	1							
Conditions Beyond Control         0         0         0         0         0         0           Driver Identity Unclear         1         3         0         1         1         2         1           Exposed         0         0         0         0         0         0         0         0           Clare on Windshield         0         0         0         0         1         0											
Driver Obstructed         1         3         0         1         1         2         1           Driver Obstructed         3         1         0         4         3         1         0           Exposed         0         0         0         0         0         0         0           Glare on Windshield         0         0         0         1         0         0           Interest of Justice-PD         0         0         0         0         0         0           Inage Cuality-PD         0         0         0         0         0         0         0           No Speed Captured         0         0         0         0         0         0         0           No Speed Captured         0         0         0         0         0         0         0           Out of Stare         0         0         0         0         0         0         0         0           Otstructed         2         1         0         2         0         4         2           Out of Stare         0         0         0         0         0         0         0         0         0			•								
Exposed         0         0         0         0         0         0           Glare on Windshield         1         1         3         0         0         1         0           Glare on Windshield         0         0         2         3         2         3           Illegible Plate         1         0         0         0         1         0         0           Interest of Justice-PD         0         0         0         0         0         0         0         0           Inage Cuality-PD         0         0         0         0         0         0         0         0           No Warning Sign         0         0         0         0         0         0         0         0         0           No Speed Captured         0											
Glare on Vindshield         1         1         3         0         0         1         0           Glare on Vindshield         0         0         0         2         3         2         3           Lingbib Plate         1         0         0         0         1         0         0           Interest of Justice- PD         0         0         0         0         0         0           Issuance Criteria Not Met -PD         0         0         0         0         0         0           No Speed Captured         0         0         0         0         0         0         0           No Speed Captured         0         0         0         0         0         0         0           Out of State         0         0         0         0         0         0         0           Plate Obstructed         2         1         0         2         4         2         1           Shot Yellow- PD         0         0         0         0         0         0         0           Shot Yellow- PD         0         0         0         0         0         0         0         0	iver Obstructed	3	1	0	4	3	1	0			
Glare on Windshield         0         0         2         3         2         3           Illegible Plate         1         0         0         0         0         0           Interest of Justice-PD         0         0         0         0         0         0           Interest of Justice-PD         0         0         0         0         0         0           Interest of Justice-PD         0         0         0         0         0         0           Issuance Criteria Nct Met-PD         0         0         0         0         0         0           No Warning Sign         0         0         0         0         0         0         0           No Speed Captured         0         0         0         0         0         0         0           Obstruction In Protor-PD         2         0         1         1         2         2         2           Out of State         0         0         0         0         0         0         0           Shont Yellow-PD         0         0         0         0         0         0         0           Thid Party Danage         0         0<											
Ilegible Plate         1         0         0         1         0         0           Interest of Justice PD         0         0         0         0         0         0           Inage Quality-PD         0         0         0         0         0         0           Issuance Criteria Not Met-PD         0         0         0         0         0         0           No Plate         4         3         2         2         4         10         11           No Speed Captured         0         0         0         0         0         0         0           Out of State         0         0         0         0         0         0         0         0           Out of State         0         0         0         0         0         0         0         0           Thied Party Damage         0         0         0         0         0         0         0         0         0           Thied Party Damage         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			•								
Interest of Justice-PD         0         0         0         0         0         0           Image Quality-PD         0         0         0         1         0         0         0           Issuance Criteria Not Met-PD         0         0         0         0         0         0         0           No Varning Sign         0         0         0         0         0         0         0         0           No Speed Captured         0         0         0         0         0         0         0         0           No Speed Captured         0											
Issuance Criteria Not Met- PD         0											
No Warning Sign         0	age Quality- PD	0	0	0	1	0	0	0			
No Plate         4         3         2         2         4         10         11           No Speed Captured         0 </td <td></td>											
No Speed Captured         0         0         0         0         0         0         0           Obstruction In Photo- PD         2         0         1         1         2         2         2           Out of State         0         0         0         0         0         1         1           Plate Obstructed         2         1         0         2         0         4         2           Short Yellow- PD         0         0         0         0         0         0         0         0           Third Party Damage         0         0         0         0         0         0         0         0           TSB No Hit         0         0         0         0         0         0         0         0           Controllable Non-Issued Violations         Total:         14         10         9         15         15         28         23           Controllable Non-Issued Violations         Controllable											
Obstruction In Photo-PD         2         0         1         1         2         2         2           Out of State         0         0         0         0         0         1         1           Plate Obstructed         2         1         0         2         0         4         2           Short Yellow-PD         0         0         0         0         0         0         0           Third Party Damage         0         0         0         0         0         0         0           TSB Fpired         0         0         0         0         0         0         0         0           Total:         14         10         9         15         15         28         23           Controllable Non-Issued Violations											
Plate Obstructed         2         1         0         2         0         4         2           Short Yellow PD         0 <td< td=""><td>· ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	· ·										
Short Yellow-PD         0         0         0         0         0         0         0         0           Third Party Damage         0         <			0				1	•			
Third Party Damage         0											
TSB Epired         0         0         0         0         0         0         0         0           TSB No Hit         0         0         0         2         1         3         3         1           Total:         14         10         9         15         15         28         23         1           Controllable Non-Issued Violations         0 <td></td>											
TSB No Hit         0         0         0         2         1         3         3            Total:         14         10         9         15         15         28         23            Controllable Non-Issued Violations          0         0         0         0         0         0         0         0         0         0         0           Clarity of Plate         0         0         0         0         0         0         0         0         0         0         0         0           Clarity of Driver         0         0         0         0         0         0         0         0         0         0         0         0         0           Dark Interior         0	-										
Controllable Non-Issued Violations           Cnduent Expire         0											
Cnduent Expire         0			10	9	15	15	28	23			
Clarity of Plate         0			0	0	0	0	0	0			1
Clarity of Driver0000000Dark Interior00000011Data Box Related- PD000000000Data Box Data Error- PD00 <td></td>											
Data Box Related- PD0000000Data Box Data Error- PD000											
Data Box Data Error- PD         0	irk Interior	0	0	0	0	0	0	1			
Data Entry Error         1         0         0         0         11         1         1         1           Emergency Vehicle Issue         0											
Emergency Vehicle Issue         0											
Exposed         0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>•</td> <td></td> <td></td> <td></td>							_	•			
Framing- PD         0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>***</td><td></td><td></td></th<>									***		
Framing of Car         4         3         4         5         9         8         11         6           Framing of Driver         0 <t< td=""><td>uipment Malfunction</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td></t<>	uipment Malfunction	0	0	0	0	0	0	0			
Framing of Driver         0			-								
Operator Error         0											
Framing of Plate         0											
Reject Expired         0											
	eed Not Determined										
	Total:	5	3	4	5	20	9	13			
Summary Metrics           Daily Average Vehicle Passes         0	-	0	0	0	0	0	0	0			
Daily Average Venicie Passes         0 <th0< th="">         0         <th0< <="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th0<></th0<>											
Average Issued Red Seconds         11.7         51.5         45.9         6.0         5.7         204.6         48.0											
Citiation / Violation Issuance Rate         24%         32%         17%         19%         21%         20%											
Controllable Issuance Rate         55%         57%         60%         44%         29%         53%         41%	ntrollable Issuance Rate	55%	57%	60%	44%	29%	53%	41%			

### Los Angeles County MTA Blue Line Approach Summary Report Location 821: EB Century Blvd @ Grandee Ave Straight Through Movements

Citations □ Controllable Non-Issued Uncontrollable Non-Issued Year to Date Average Quantity % Oct-18 Nov-18 Dec-18 142 82% 31 18% 174 100% 52% 16 8 27% 21% 7 100% 31 2 1% 0 0% 0 0% 0% 0 48 34% 0 0% 0% 0 92 64% 0 0% 1% 1 143 100% 0% 0 8% 2 0 0% 2 6% 10% 2 0 0% 2 6% 10% 3 4% 1 0 0% 4% 1 0% 0 0% 0 5 21% 0 0% 2 7% 4% 1 2 9% 0 0% 0 0% 0 0% 2 9% 24 100% 0 0% 0% 0 0 0% 9% 1 0% 0 0 0% 4 32% 0 0% 0% 0 0 0% 0 0% 6 58% 0 0% 0 0% 0 0% 0 0% 0 0% 11 100% Year to Date Average 0 20 53.3 22% 48%



100% -										
80% -										
60% —										
			1	1	1		1			
40% –										
20% —										
0%	0	0				0		0	0	
Events Non-Violations	Jan-18	Feb-18 80	Mar-18 88	Apr-18 86	May-18 92	Jun-18 94	Jul-18 84	Aug-18	Sep-18	С
Violations	87 0	0	1	1	92	94 0	04 1			
Total:	87	80	89	87	93	94	85			
Violations	0	0	0	٥	٥	0	0			
Uncontrollable Non-Issued Controllable Non-Issued	0	0	0	0	0	0	0			
Citations	0	0	0	0	0	0	0			
Total:	0	0	1	1	1	0	1			
Non-Violations Emergency Vehicle Non-	0	0		2	2	2	0			_
Issuable	0	0	0	0	0	0	0			
Emergency Vehicle PD Intersection Control in	0	0	0	0	0	0	0			
Progress- PD	0	0	0	0	0	0	0			
Gate Down/ No Train No Violation Occurred	0	0	0	0	0	0	0			
Rear Axle Activation	0	0	0	0	0	0	0			
Right Turn- No Violation	0	0	0	0	0	0	0			
Test Shot Amber Time Low	87	80	88	86	92	94	84			
Vehicle Stopped- PD	0	0	0	0	0	0	0			
Total:	87	80	88	86	92	94	84			
Uncontrollable Non-Is			0	0	0	0	0	1		
Administrative Dismissal Car Obstructed	0	0 0	0	0	0	0	0			
Conditions Beyond Control	0	0	0	0	0	0	0			
Driver Identity Unclear	0	0	0	0	0	0	0			
Driver Obstructed Exposed	0	0	0	0	0	0	0			
Glare on Plate	0	0	0	0	0	0	0			
Glare on Windshield	0	0	0	0	0	0	0			
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0	0			
Image Quality- PD	0	0	0	0	0	0	0			
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0			
No Warning Sign No Plate	0	0	0	0	0	0	0			
No Speed Captured	0	0	0	0	0	0	0			
Obstruction In Photo- PD	0	0	0	0	0	0	0			
Out of State	0	0	0	0	0	0	0			
Plate Obstructed Short Yellow- PD	0	0	0	0	0	0	0			
Third Party Damage	0	0	0	0	0	0	0			
TSB Epired	0	0	0	0	0	0	0			
TSB No Hit Total:	0	0	0	0 0	0 0	0 0	0 <b>0</b>			
Controllable Non-Issu	-	U		•	•	J J				
Cnduent Expire	0	0	0	0	0	0	0			
Clarity of Plate Clarity of Driver	0	0	0	0	0	0	0			
Dark Interior	0	0	0	0	0	0	0			
Data Box Related- PD	0	0	0	0	0	0	0			
Data Box Data Error- PD	0	0	0	0	0	0	0			
Data Entry Error Emergency Vehicle Issue	0	0	0	0	1 0	0	0			
Exposed	0	0	0	0	0	0	0			
Equipment Malfunction	0	0	0	0	0	0	0			
Framing- PD Framing of Car	0	0	0	0	0	0	0			
Framing of Driver	0	0	0	0	0	0	0			
Operator Error	0	0	0	0	0	0	0			
Framing of Plate Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined	0	0	0	1	0	0	0			
Total:	0	0	1	1	1	0	1			
Summary Metrics	0	0	0	0	0	0	0			
Daily Average Vehicle Passes Average Issued Speed	0	0	0	0	0	0	0			
Average Issued Red Seconds	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Citiation / Violation Issuance Rate	0%	0%	0%	0%	0%	0%	0%			
Controllable Issuance Rate	0%	0%	0%	0%	0%	0%	0%			Volume

# Los Angeles County MTA Blue Line Approach Summary Report Location 822: WB Century Blvd @ Grandee Ave Straight Through Movements

Citations □ Controllable Non-Issued Uncontrollable Non-Issued -0 Year to Date Average Quantity % Nov-18 Dec-18 Oct-18 99% 1% 100% 0% 100% 0% 100% 0% 0% 0% 0% 0% 0% 0% 100% 0% 0% 100% 0% 0% 0% 0% 0% 0% 0% 50% 0% 0% 0% 0% 0% 0% 0% 0% 0% 50% 100% Year to Date Average 0.0 0% 0%



	100% - 80% - 60% - 40% - 20% - 0% -	25 3 29	28 3 22	31 7 16	31 31 21	37 40	27 27 19	28	0	0	0	0	0		□ Citations □ Controllable I ■ Uncontrollabl	
Events	070	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18		o Date Average	
Non-Violations	No. of the second	135	107	137	144	173	151	157	,		000.10		20010	Quantitv 143	% 71%	
Violations		57	53	54	55	78	48	57						57	29%	
	Total:	192	160	191	199	251	199	214						201	100%	
Violations		22		40	24	40	40	07	1					0.5	100/	
Uncontrollable Non-Issue		29 3	22 3	16 7	21 3	40	19 2	27 2						25 3	43% 5%	
Citations	eu	25	28	31	31	37	27	28						30	51%	
	Total:	57	53	54	55	78	48	57						57	100%	
Non-Violatio																
Emergency Vehicle No Issuable	on-	0	0	1	4	1	0	5						3	2%	
Emergency Vehicle Pl	D	0	0	0	0	0	0	0						0	0%	
Intersection Control in		0	0	0	0	0	0	0						0	0%	
Progress- PD																
Gate Down/ No Train No Violation Occurred		0 47	0 29	0 37	0 51	0 69	0 54	0 61						0 50	0% 34%	
Rear Axle Activation	•	47 0	29 0	37 0	51 0	69 0	54 0	61 0						50 0	0%	
Right Turn- No Violatio	on	0	0	0	0	0	0	0						0	0%	
Test Shot		88	78	99	89	103	97	91						92	64%	
Amber Time Low		0	0	0	0	0	0	0						0	0%	
Vehicle Stopped- PD	_	0	0	0	0	0	0	0						0	0%	
Line and the line	Total:	135	107	137	144	173	151	157						145	100%	
Administrative Dismiss		sued Violations 0	0	0	0	0	0	0						0	0%	_
Car Obstructed	5 <b>a</b> i	0	0	0	0	0	0	0						0	0%	
Conditions Beyond Co	ontrol	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear		4	1	0	0	1	2	0						2	6%	
Driver Obstructed		2	0	0	1	2	0	1						2	4%	
Exposed		0	0	0	0	0	0	0						0	0%	
Glare on Plate		6	5	2	1	4	1	1						3	8%	
Glare on Windshield Illegible Plate		0	0	0	0	0	0	5 0						3 0	8% 0%	
Interest of Justice- PD	)	0	0	0	1	0	0	0						1	3%	
Image Quality- PD	-	0	0	0	1	1	0	0						1	3%	
Issuance Criteria Not	Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign		0	0	0	0	0	0	0						0	0%	
No Plate		9	9	8	15	12	8	10						10	28%	
No Speed Captured Obstruction In Photo-		0	0 4	0	0	0	0	0						0	0%	 
Out of State	PD	5 2	4	0	0	2	2	2						3 2	8% 6%	 
Plate Obstructed		1	3	0	1	1	1	1						1	4%	
Short Yellow- PD		0	0	0	0	0	0	0						0	0%	
Third Party Damage		0	0	0	0	0	0	0						0	0%	
TSB Epired		0	0	0	0	0	0	0						0	0%	 
TSB No Hit		0	0	6	0	17	5	6						9	24%	 
Controllable	Total:	29 ed Violations	22	16	21	40	19	27						36	100%	
Controllable	-110111550		0	0	0	0	0	0						0	0%	
Clarity of Plate		0	0	0	0	0	0	0						0	0%	
Clarity of Driver		0	0	0	0	0	0	0						0	0%	
Dark Interior		0	0	0	0	0	0	0						0	0%	
Data Box Related- PD		0	0	0	0	0	0	0						0	0%	 
Data Box Data Error- I Data Entry Error	עץ	0	0	0	0	0	0	0						0	0% 21%	
Emergency Vehicle Is	sue	0	0	0	0	0	0	0					*****	0	0%	
Exposed		0	0	0	0	0	0	0						0	0%	
Equipment Malfunction	n	0	1	1	0	0	0	0						1	21%	
Framing- PD		0	0	0	0	0	0	0						0	0%	
Framing of Car		1	1	5	3	1	1	1						2	38%	
Framing of Driver		0	0	0	0	0	0	0						0	0% 0%	 
Operator Error Framing of Plate		0	0	0	0	0	0	0						0	0%	
Reject Expired		0	0	0	0	0	0	0						0	0%	
Speed Not Determined	d	1	1	1	0	0	0	0						1	21%	
	Total:	3	3	7	3	1	2	2						5	100%	
Summary Me	· · · · · · · · · · · · · · · · · · ·													Year to	Date Average	
Daily Average Vehicle Pass	ses	0	0	0	0	0	0	0							0	
Average Issued Speed Average Issued Red Secor	nds	16 28.6	18 6.1	19 6.2	18 8.1	19 5.8	19 8.7	20 18.5							18 11.7	
		44%	53%	57%	56%	47%	56%	49%							52%	
Citiation / Violation Issuance																

# Los Angeles County MTA Blue Line Approach Summary Report Location 841: EB 103rd St @ Grandee Ave Straight Through Movements



100%															
80% -	30	41	46	58	79	48	53							Citations	
60%				23	24	20	14								Non-Issued
40%	11	4													
20%	25	24	37	86	142	78	94							Uncontrollab	le Non-Issued
0%		27						0	0	0	0	0			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Da	te Average	
Non-Violations	367	192	115	160	240	126	143						192	59%	
Violations Total:	66 <b>433</b>	69 <b>261</b>	87 <b>202</b>	167 <b>327</b>	245 <b>485</b>	146 <b>272</b>	161 <b>304</b>						134 326	41% 100%	
Violations	400	201	202	021	-100	272	004						020	10070	
Uncontrollable Non-Issued	25	24	37	86	142	78	94						69	52%	
Controllable Non-Issued Citations	11 30	4	4 46	23 58	24 79	20 48	14 53						14 51	11% 38%	
Total:		69	87	167	245	146	161						134	100%	
Non-Violations Emergency Vehicle Non-			1	1								1			
Issuable	5	0	0	2	6	3	2						4	2%	
Emergency Vehicle PD Intersection Control in	0	0	0	1	1	1	0						1	1%	
Progress- PD	0	0	0	0	0	1	0						1	1%	
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred Rear Axle Activation	269 0	98 0	9	67 0	127 0	20 0	47 0						91 0	47% 0%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot	93	94	106	90	105	101	94						98	50%	
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0% 1%	
Total:	367	192	115	160	240	126	143						195	100%	
Uncontrollable Non-Is Administrative Dismissal		0	0	0	0	0	0	8			1		0	09/	
Car Obstructed	0	0	0	0 2	0 2	0	0						0	0% 2%	
Conditions Beyond Control	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear	10	5	7	11	23 F	7	10						10	12%	
Driver Obstructed Exposed	1	0	0	3	5 0	0	2						2	3% 0%	
Glare on Plate	1	1	0	3	0	0	1						2	2%	
Glare on Windshield	0	0	2	20	25	15	19						16	19%	
Illegible Plate Interest of Justice- PD	1	0	0	0	1	0	0						1 0	1% 0%	
Image Quality- PD	0	0	1	3	5	2	3						3	3%	
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign No Plate	0 9	0 8	0 9	0 26	0 31	0 28	0 24						0 19	0% 23%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD	0	6	1	1	1	0	3						2	3%	
Out of State Plate Obstructed	1	0	1 5	1	2 7	0 4	3						2 4	2% 5%	
Short Yellow- PD	0	0	0	0	0	0	0						0	0%	
Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired TSB No Hit	0	0	0 9	0	0 40	0 20	0 24						0 21	0% 25%	
Total:	25	24	37	86	142	78	94						84	100%	
Controllable Non-Issu Cnduent Expire	ued Violations 0	0	0	0	0	0	0						0	0%	
Clarity of Plate	0	0	0	0	0	0	0						0	0%	
Clarity of Driver	0	0	0	0	0	0	0						0	0%	
Dark Interior Data Box Related- PD	2	0	0	3	2 0	2	1 0						2	11% 0%	
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%	
Data Entry Error	2	1	0	11	12	1	0						5	30%	
Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0%	
Exposed Equipment Malfunction	0	0	0	0	0	0	0						0	0% 0%	
Framing- PD	0	0	0	0	0	0	0						0	0%	
Framing of Car	5	3	4	9	10	17	13						9	48%	
Framing of Driver Operator Error	1 0	0	0	0	0 0	0	0						1 0	6% 0%	
Framing of Plate	0	0	0	0	0	0	0						0	0%	
Reject Expired	0	0	0	0	0	0	0						0	0%	
Speed Not Determined Total:	1 <b>11</b>	0 <b>4</b>	0 4	0 23	0 <b>24</b>	0 <b>20</b>	0 14						1 18	6% 100%	
Summary Metrics		-	3								1		Year to Da	te Average	
Daily Average Vehicle Passes	0	0	0	0	0	0	0							) :0	
Average Issued Speed Average Issued Red Seconds	19 97.2	19 75.7	18 12.2	21 6.0	21 18.0	21 30.0	22 29.5						38		
	45%	59%	53%	35%	32%	33%	33%							2%	
Citiation / Violation Issuance Rate															
Controllable Issuance Rate	73%	91%	92%	72%	77%	71%	79%						70	9%	

# Los Angeles County MTA Blue Line Approach Summary Report Location 981: EB 119th St @ Willowbrook Straight Through Movements



100%													1		
80%	41	26	19	12	18	12	23							Citations	
60%	_			9	10	16	26						-		Non Issued
40%	15	9	9										_		
20%	25	17	14	19	30	31	37							Uncontrollab	ie non-issued
0%								0	0	0	0	0		-	
Events Non-Violations	Jan-18 541	Feb-18 348	Mar-18 448	Apr-18 455	May-18 489	Jun-18 513	Jul-18 1,390	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity 598	ate Average % 91%	
Violations	81	52	42	40	58	59	86						60	9%	
Total:	622	400	490	495	547	572	1,476						657	100%	
Violations Uncontrollable Non-Issued	25	17	14	19	30	31	37						25	41%	
Controllable Non-Issued	15	9	9	9	10	16	26						13	22%	
Citations Total:	41 <b>81</b>	26 <b>52</b>	19 <b>42</b>	12 <b>40</b>	18 <b>58</b>	12 <b>59</b>	23 86						22 60	36% 100%	
Non-Violations											1				
Emergency Vehicle Non- Issuable	1	1	3	1	1	0	3						2	0%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Intersection Control in Progress- PD	0	0	0	0	0	0	0						0	0%	
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred Rear Axle Activation	456 0	263 0	353 0	373 0	378 0	417 0	1,276 0						502 0	84% 0%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot Amber Time Low	84	84	92	81	110	96	110						94	16%	
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0% 0%	
Total:	541	348	448	455	489	513	1,390						599	100%	
Uncontrollable Non-I Administrative Dismissal	ssued Violations 0	0	0	0	0	0	0						0	0%	
Car Obstructed	3	0	1	0	1	1	0						2	5%	
Conditions Beyond Control	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear Driver Obstructed	5 0	3	4	3	3	3	6						4	12% 6%	
Exposed	0	0	0	0	0	0	0						0	0%	
Glare on Plate Glare on Windshield	0	1	1	1	0	0	0						1	3%	
Illegible Plate	1	4	1	0	3 0	4	3						3	8% 3%	
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%	
Image Quality- PD Issuance Criteria Not Met- PD	0	1 0	0	0	0	1	1						1 0	3% 0%	
No Warning Sign	0	0	0	0	0	0	0						0	0%	
No Plate	8	5	5	9	7	9	9						7	23%	
No Speed Captured Obstruction In Photo- PD	0	0	0	0 3	0	0	0						0 2	0% 6%	
Out of State	1	0	0	0	0	1	0						1	3%	
Plate Obstructed	6	1	1	1	2	2	4						2	8%	
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0						0	0% 0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit Total:	0 <b>25</b>	0 17	1 <b>14</b>	1 19	12 <b>30</b>	7 31	10 <b>37</b>						6 32	19% 100%	
Controllable Non-Iss				10			5,							10070	
Cnduent Expire	0	0	0	0	0	0	0						0	0%	
Clarity of Plate Clarity of Driver	0	0	0	0	0	0	0						0	0% 0%	
Dark Interior	3	0	2	2	3	1	3						2	13%	
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0	0						0	0% 0%	
Data Box Data Error- PD Data Entry Error	0 5	0	0	0	0	0	0						5	0% 30%	
Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0%	
Exposed Equipment Malfunction	0	0	0	0	0	0	0						0	0% 0%	
Framing- PD	0	0	0	0	0	0	0						0	0%	
Framing of Car	7	6	7	7	6	15	9						8	46%	
Framing of Driver Operator Error	0	2	0	0	0	0	0						2	11% 0%	
Framing of Plate	0	0	0	0	0	0	0						0	0%	
Reject Expired	0	0	0	0	0	0	0						0	0%	
Speed Not Determined Total:	0 <b>15</b>	0 9	0 9	0 9	0 10	0 <b>16</b>	0 <b>26</b>						0 18	0% 100%	
Summary Metrics											1		Year to Da	ate Average	
Daily Average Vehicle Passes Average Issued Speed	0 17	0 16	0 14	0	0 13	0 16	0 16							0 15	
Average Issued Speed Average Issued Red Seconds	13.6	120.4	21.5	13.7	42.2	94.9	103.5							8.5	
Citiation / Violation Issuance Rate	51%	50%	45%	30%	31%	20%	27%							6%	
Controllable Issuance Rate	73%	74%	68%	57%	64%	43%	47%						6	1%	

# Los Angeles County MTA Blue Line Approach Summary Report Location 982: WB 119th St @ Willowbrook Straight Through Movements



100% -															
80% -	15	14	11	17	24	12	9							Citations	
60% -	40		6	11	9									Controllable N	lon-Issued
40% -	13	8				27	23								
20% -	12	10	13	18	34										
0% -								0	0	0	0	0			
Events Non-Violations	Jan-18 262	Feb-18 134	Mar-18 258	Apr-18 119	May-18 164	Jun-18 95	Jul-18 108	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity 163	ate Average % 79%	
Violations	40	32	30	46	67	42	38						42	21%	
Total:	302	166	288	165	231	137	146						205	100%	
Violations Uncontrollable Non-Issued	12	10	13	18	34	27	23						20	46%	
Controllable Non-Issued	13	8	6	11	9	3	6						8	19%	
Citations Total:	15 <b>40</b>	14 <b>32</b>	11 <b>30</b>	17 <b>46</b>	24 67	12 <b>42</b>	9 <b>38</b>						15 42	35% 100%	
Non-Violations	40	32	30	40	67	42	30						42	100%	
Emergency Vehicle Non- Issuable	0	0	0	0	0	0	0						0	0%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Intersection Control in	0	0	0	0	1	0	0						1	1%	
Progress- PD Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred	180	55	163	32	63	6	25						75	46%	
Rear Axle Activation Right Turn- No Violation	0	0	0	0	0	0	0						0	0% 0%	
Test Shot	82	79	95	87	100	89	83						88	54%	
Amber Time Low	0	0	0	0	0	0	0						0	0%	
Vehicle Stopped- PD Total:	0 <b>262</b>	0 134	0 258	0 119	0 <b>164</b>	0 <b>95</b>	0 <b>108</b>						0 164	0% 100%	
Uncontrollable Non-Is			200			35							104	100 /0	
Administrative Dismissal	0	0	0	0	0	0	0						0	0%	
Car Obstructed Conditions Beyond Control	1	0	0	0	0	0	0						1	4% 0%	
Driver Identity Unclear	4	3	3	3	1	0	3						3	10%	
Driver Obstructed	0	0	0	1	1	3	0						2	6%	
Exposed Glare on Plate	0	0	0	0	0	0	0						0	0%	
Glare on Windshield	1	1	3	0	03	4	5						4	5% 14%	
Illegible Plate	0	0	0	0	0	0	0						0	0%	
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%	
Image Quality- PD Issuance Criteria Not Met- PD	0	0	0	1 0	0	0	0						0	4% 0%	
No Warning Sign		0	0	0	0	0	0						0	0%	
No Plate	0 5	6	6	7	8	10	4						7	23%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD Out of State	0	0	0	0	0	0	0						0	0% 0%	
Plate Obstructed	0	0	0	1	2	1	0						0	4%	
Short Yellow- PD	0	0	0	0	0	0	0						0	0%	
Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired TSB No Hit	0	0	0	0 5	0 19	0 8	0 9						0 8	0% 30%	
Total:	12	10	13	18	34	27	23						28	100%	
Controllable Non-Issu Cnduent Expire		0	0	0	0	0	0							0%	
Chauent Expire	0	0	0	0	0	0	0						0	0%	
Clarity of Driver	0	0	0	0	0	0	0						0	0%	
Dark Interior	2	0	1	5	0	1	2						2	19%	
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0	0						0	0% 0%	
Data Entry Error	4	1	1	0	4	0	0						3	22%	
Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0%	
Exposed Equipment Malfunction	0	0	0	0	0	0	0						0	0% 9%	
Framing- PD	0	0	0	0	0	0	0						0	0%	
Framing of Car	6	6	4	6	5	2	4						5	41%	
Framing of Driver Operator Error	1	0	0	0	0	0	0						1 0	9% 0%	
Framing of Plate	0	0	0	0	0	0	0						0	0%	
Reject Expired	0	0	0	0	0	0	0						0	0%	
Speed Not Determined Total:	0 13	0 <b>8</b>	0 6	0 11	0 9	0 <b>3</b>	0 6						0	0% 100%	
Summary Metrics	15	0	<b>V</b>		3	<b>J</b>	U							ate Average	
Daily Average Vehicle Passes	0	0	0	0	0	0	0							0	
Average Issued Speed Average Issued Red Seconds	17 5.3	16 33.0	19 5.5	16 17.3	16 10.2	14 129.1	17 27.3							16 2.5	
Citiation / Violation Issuance Rate	38%	44%	37%	37%	36%	29%	24%							5%	
Controllable Issuance Rate	54%	64%	65%	61%	73%	80%	60%						6	5%	

# Los Angeles County MTA Blue Line Approach Summary Report Location 1051: EB 130th St @ Willowbrook Straight Through Movements



100% -															
80% -	8	17	7	8	13	13	7							Citations	
60% -			4	4	6									□ Controllable N	Non-Issued
40% -	8			4	0										
20% -		3	15	8	13	14	14							□ Uncontrollable	e Non-Issued
0% -	4	7						0	0	0	0	0			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to I Quantity	Date Average	
Non-Violations	287	155	367	150	164	167	198						213	89%	
Violations	20	27	26	20	32	29	22						25	11%	
Total: Violations	307	182	393	170	196	196	220						238	100%	
Uncontrollable Non-Issued	4	7	15	8	13	14	14						11	43%	
Controllable Non-Issued	8	3	4	4	6	2	1						4	16%	
Citations Total:	8 <b>20</b>	17 <b>27</b>	7 26	8 20	13 <b>32</b>	13 <b>29</b>	7 22						10 25	41% 100%	
Non-Violations															
Emergency Vehicle Non- Issuable	0	0	0	0	0	0	0						0	0%	
Emergency Vehicle PD	0	0	1	0	0	0	0						1	0%	
Intersection Control in Progress- PD	0	0	0	0	0	0	0						0	0%	
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred	200	72	260	70	64	76	112						122	57%	
Rear Axle Activation Right Turn- No Violation	0	0	0	0	0	0	0						0	0% 0%	
Test Shot	87	83	106	80	100	91	86						90	42%	
Amber Time Low	0	0	0	0	0	0	0						0	0%	
Vehicle Stopped- PD Total:	0 <b>287</b>	0 155	0 <b>367</b>	0 <b>150</b>	0 164	0 <b>167</b>	0 <b>198</b>						0 213	0% 100%	
Uncontrollable Non-Is			307	150	104	107	190						213	100%	
Administrative Dismissal	0	0	0	0	0	0	0						0	0%	
Car Obstructed	0	0	1	0	0	1	0						1	6%	
Conditions Beyond Control Driver Identity Unclear	0	0 2	0	0	03	0	0						0	0% 13%	
Driver Obstructed	0	1	0	0	0	0	0						- 1	6%	
Exposed	0	0	0	0	0	0	0						0	0%	
Glare on Plate Glare on Windshield	0	1	03	0	0 2	0	0						1 2	6% 10%	
Illegible Plate	0	0	0	0	0	0	0						0	0%	
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%	
Image Quality- PD	0	0	0	0	0	0	0						0	0%	
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign No Plate	0	0	0	0	0	0	0						0	0% 22%	
No Speed Captured	2	1 0	3	6 0	0	6 0	5 0						4	0%	
Obstruction In Photo- PD	0	0	0	0	1	1	0						1	6%	
Out of State	0	0	0	0	0	0	0						0	0%	
Plate Obstructed Short Yellow- PD	0	0	1	0	0	0	1						1	6% 0%	
Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit Total:	0 <b>4</b>	0 7	7 15	1 8	3 13	5 14	8 14						5 18	27% 100%	
Controllable Non-Issu	ued Violations	· · ·				• •	••				1			10070	
Cnduent Expire	0	0	0	0	0	0	0						0	0%	
Clarity of Plate Clarity of Driver	0	0	0	0	0	0	0						0	0% 0%	
Dark Interior	1	0	0	1	2	1	1						1	17%	
Data Box Related- PD	0	0	0	0	0	0	0						0	0%	
Data Box Data Error- PD Data Entry Error	0 4	0	0	0	0	0	0						0	0% 25%	
Emergency Vehicle Issue	4	0	1	0	1	0	0						2	0%	
Exposed	0	0	0	0	0	0	0						0	0%	
Equipment Malfunction	0	0	2	0	0	0	0						2	28%	
Framing- PD Framing of Car	0	0 2	0	03	03	0	0						0	0% 30%	
Framing of Driver	0	0	0	0	0	0	0						0	0%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate Reject Expired	0	0	0	0	0	0	0						0	0% 0%	
Speed Not Determined	0	0	0	0	0	0	0						0	0%	
Total:	8	3	4	4	6	2	1						7	100%	
Summary Metrics Daily Average Vehicle Passes	0	0	<u>^</u>	0	0	0	0						Year to D	oate Average	
Average Issued Speed	0 15	0 16	0 15	0 15	0 12	0 14	0 16							0 15	
Average Issued Red Seconds	9.1	54.5	5.9	6.3	6.3	206.4	5.4						4	42.0	
Citiation / Violation Issuance Rate	40%	63%	27%	40%	41%	45%	32%							41%	
Controllable Issuance Rate	50%	85%	64%	67%	68%	87%	88%	- Volonia					-	73%	

# Los Angeles County MTA Blue Line Approach Summary Report Location 1052: WB 130th St @ Willowbrook Straight Through Movements



100% 80% 60%	33	27	25	12	16	13	8			
40%		5	7		6	_				
20%	5	11	14	2	12	4	15			
0% Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	<del>0</del> Aug-18	0 Sep-18	Oc
Non-Violations	160	112	343	95	128	94	82			
Violations Total:	46 <b>206</b>	43 155	46 <b>389</b>	16 <b>111</b>	34 <b>162</b>	18 <b>112</b>	27 <b>109</b>			
Violations										
Uncontrollable Non-Issued Controllable Non-Issued	8 5	11 5	14 7	2	12 6	4	15 4			
Citations	33	27	25	12	16	13	8			
Total:	46	43	46	16	34	18	27			
Non-Violations Emergency Vehicle Non-	0	0	0	0	0	0	0			
Issuable Emergency Vehicle PD	0	0	0	0	0	1	0			
Intersection Control in	0	0	0	0	0	0	0			
Progress- PD Gate Down/ No Train	0	0	0	0	0	0	0			
No Violation Occurred	75	32	245	14	37	0	2			
Rear Axle Activation	0	0	0	0	0	0	0			
Right Turn- No Violation Test Shot	0 85	0 80	0 98	0 81	0 90	0 93	0 80			
Amber Time Low	0	0	98	0	0	93	0			
Vehicle Stopped- PD	0	0	0	0	1	0	0			
Total: Uncontrollable Non-I		112	343	95	128	94	82			
Administrative Dismissal	0	0	0	0	0	0	0			
Car Obstructed	0	1	0	0	0	0	0			
Conditions Beyond Control Driver Identity Unclear	0	0 4	0	0	0	0	0			
Driver Obstructed	0	0	0	0	0	0	0			
Exposed	0	0	0	0	0	0	0			
Glare on Plate Glare on Windshield	2	0	1	0	0	0	0 3			
Illegible Plate	0	0	0	0	0	0	0			
Interest of Justice- PD	0	0	0	0	0	0	0			
Image Quality- PD Issuance Criteria Not Met- PD	0	0	0	0	0	0	0			-
No Warning Sign	0	0	0	0	0	0	0			
No Plate	0	4	7	1	5	1	3			
No Speed Captured Obstruction In Photo- PD	0	0	0	0	0	0	0			
Out of State	0	0	0	0	0	0	0			
Plate Obstructed	0	2	2	0	0	0	1			
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0			
TSB Epired	0	0	0	0	0	0	0			
TSB No Hit	0	0	4	1	4	2	7			
Total: Controllable Non-Iss	000	11	14	2	12	4	15			
Cnduent Expire	0	0	0	0	0	0	0			
Clarity of Plate	0	0	0	0	0	0	0			
Clarity of Driver Dark Interior	0	0	0	0	0	0	0			
Data Box Related- PD	0	0	0	0	0	0	0			
Data Box Data Error- PD	0	0	0	0	0	0	0			
Data Entry Error Emergency Vehicle Issue	0	1	3	0	1 0	0	0			
Exposed	0	0	0	0	0	0	0			
Equipment Malfunction	0	0	0	0	0	0	0			
Framing- PD Framing of Car	0	0 4	0 4	0	0 4	0	03			
Framing of Driver	0	0	0	0	0	0	0			
Operator Error	0	0	0	0	0	0	0			
Framing of Plate Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined	0	0	0	0	0	0	1			
Total:	5	5	7	2	6	1	4			
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0			
Average Issued Speed	19	19	18	18	20	26	20			
Average Issued Red Seconds	5.6	18.0	6.0	5.6	5.4	5.7	6.1			
Citiation / Violation Issuance Rate Controllable Issuance Rate	72% 87%	63% 84%	54% 78%	75% 86%	47% 73%	72% 93%	30% 67%			
	01/0	UT /0	1070	0070	10/0	5576	01/0			1

### Los Angeles County MTA Blue Line Approach Summary Report Location 1081: EB Stockwell @ Willowbrook Straight Through Movements

Citations Controllable Non-Issued Uncontrollable Non-Issued Year to Date Average Quantity % Nov-18 Dec-18 Oct-18 145 82% 33 18% 178 100% 29% 9 4 13% 19 58% 100% 33 0% 0 1% 1 0 0% 0% 0 68 43% 0 0% 0% 0 87 56% 0 0% 1% 1 156 100% 0% 0 6% 1 0 0% 15% 3 0% 0 0 0% 9% 2 12% 2 0 0% 0 0% 0 0% 0% 0 0% 0 4 21% 0 0% 6% 1 0% 0 2 10% 0 0% 0 0% 0 0% 21% 4 17 100% 0 0% 0 0% 0 0% 14% 1 0 0% 0 0% 2 24% 0 0% 0% 0 0 0% 0 0% 47% 3 0 0% 0 0% 0 0% 0% 0 1 14% 7 100% Year to Date Average 0 20 7.5 59% 81%



100% 80% 60% 40% 20%	17 17 5	24 24 3 11	17 12 8	15 0 8	4	5 3 8	9 4 6	0	0	0	0	0		Citations	Non-Issued le Non-Issued	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Quantity	Date Average %		
Non-Violations	166	125	413	138	69	130	143						169	88%		
Violations	23	38	37	23	6	16	19						23	12%		
Total:	189	163	450	161	75	146	162						192	100%		
Violations Uncontrollable Non-Issued	5	11	8	8	2	8	6						7	28%		
Controllable Non-Issued	3 1	3	12	0	0	3	4						5	19%		
Citations	17	24	17	15	4	5	9						13	53%		
Total:	23	38	37	23	6	16	19						24	100%		
Non-Violations																
Emergency Vehicle Non- Issuable	0	0	1	0	0	0	0						1	1%		
Emergency Vehicle PD	0	0	0	0	0	1	0						1	1%		
Intersection Control in	0	0	0	0	0	0	0						0	0%		
Progress- PD																
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%		
No Violation Occurred Rear Axle Activation	80 0	42	313 0	60 0	21 0	37 0	64 0						88 0	52% 0%		
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%		
Test Shot	86	83	99	78	48	92	79						81	47%		
Amber Time Low	0	0	0	0	0	0	0						0	0%		
Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0%		
Total:	166	125	413	138	69	130	143						171	100%		
Uncontrollable Non-Is								1					-			
Administrative Dismissal	0	0	0	0	0	0	0						0	0%		
Car Obstructed Conditions Beyond Control	0	0	0	0	0	0	0						0	0% 0%		
Driver Identity Unclear	0	2	0	1	0	2	0						2	14%		
Driver Obstructed	1	1	0	0	0	0	0						1	8%		
Exposed	0	0	0	0	0	0	0						0	0%		******
Glare on Plate	0	0	0	0	0	0	0						0	0%		
Glare on Windshield	0	0	1	1	0	0	0						1	8%		****
Illegible Plate	0	0	0	0	0	0	0						0	0%		
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%		
Image Quality- PD	0	0	0	0	0	0	0						0	0%		
Issuance Criteria Not Met- PD No Warning Sign	0	0	0	0	0	0	0						0	0% 0%		
No Plate	4	7	4	6	0	5	3						5	40%		
No Speed Captured	0	0	0	0	0	0	0						0	0%		
Obstruction In Photo- PD	0	0	0	0	0	0	0						0	0%		
Out of State	0	0	0	0	0	0	0						0	0%		
Plate Obstructed	0	1	0	0	0	1	0						1	8%		
Short Yellow- PD	0	0	0	0	0	0	0						0	0%		
Third Party Damage	0	0	0	0	0	0	0						0	0%		
TSB Epired TSB No Hit	0	0	03	0	0 2	0	0 3						0 3	0% 22%		
TSB NO HIT	5	11	3 8	8	2	8	3 6						3 12	100%		
Controllable Non-Issu			<b></b>	~	-								12	10070		
Cnduent Expire	0	0	0	0	0	0	0						0	0%		
Clarity of Plate	0	0	0	0	0	0	0						0	0%		
Clarity of Driver	0	0	0	0	0	0	0						0	0%		
Dark Interior	1	0	0	0	0	0	2						2	15%		
Data Box Related- PD	0	0	0	0	0	0	0						0	0%		
Data Box Data Error- PD Data Entry Error	0	0	0 5	0	0	0	0						0 5	0% 49%		
Emergency Vehicle Issue	0	0	5 0	0	0	0	0						5	49% 0%		
Exposed	0	0	0	0	0	0	0						0	0%		
Equipment Malfunction	0	0	0	0	0	0	0						0	0%		
Framing- PD	0	0	0	0	0	0	0						0	0%		
Framing of Car	0	3	7	0	0	3	2						4	37%		
Framing of Driver	0	0	0	0	0	0	0						0	0%		*****
Operator Error	0	0	0	0	0	0	0						0	0%		
Framing of Plate	0	0	0	0	0	0	0						0	0%		
Reject Expired Speed Not Determined	0	0	0	0	0	0	0						0	0%		
Speed Not Determined Total:	0	0 3	0 12	0	0	0 <b>3</b>	0 4						0 10	0% 100%		
Summary Metrics	•	<b>v</b>		~	<b>v</b>	· · ·		1						Date Average		
Daily Average Vehicle Passes	0	0	0	0	0	0	0							0		
Average Issued Speed	21	18	20	18	22	17	21							20		
Average Issued Red Seconds	5.4	47.4	5.4	162.5	5.9	5.6	6.2							34.1		
Citiation / Violation Issuance Rate	74%	63%	46%	65%	67%	31%	47%							56%		*****
Controllable Issuance Rate	94%	89%	59%	100%	100%	63%	69%							82%		

# Los Angeles County MTA Blue Line Approach Summary Report Location 1082: WB Stockwell @ Willowbrook Straight Through Movements



100%										
80%	120	140	148	144	133	130	141			
60%										
40%										
		101	2	2	106		100			
20%	91	104	74	69	106	91	106			
0%								0	0	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	0
Non-Violations	522	442	485	469	444	414	416			
Violations	213	245	224	215	242	225	250			
Total: Violations	735	687	709	684	686	639	666			
Uncontrollable Non-Issued	91	104	74	69	106	91	106			
Controllable Non-Issued	2	1	2	2	3	4	3			
Citations	120	140	148	144	133	130	141			
Total:	213	245	224	215	242	225	250			
Non-Violations			9			1		2		
Emergency Vehicle Non- Issuable	2	1	1	6	4	3	2			
Emergency Vehicle PD	0	1	0	0	0	0	0			
Intersection Control in	0	0	0	0	0	0	0			
Progress- PD Gate Down/ No Train	0	0	0	0	0	0	0			
No Violation Occurred	430	354	386	375	350	313	328			
Rear Axle Activation	0	1	0	0	0	0	0			
Right Turn- No Violation	0	0	0	0	0	0	0			
Test Shot	90	85	97	87	90	97	86			
Amber Time Low	0	0	0	0	0	0	0			
Vehicle Stopped- PD Total:	<b>522</b>	<b>442</b>	485	469	444	414	<b>416</b>			
Uncontrollable Non-I										
Administrative Dismissal	0	0	0	0	0	0	0			
Car Obstructed	5	5	2	2	3	1	1			
Conditions Beyond Control	0	0	9	0	0	0	0			
Driver Identity Unclear Driver Obstructed	10 0	13 3	0	4	9 4	4	3			
Exposed	0	0	0	0	4	0	0			
Glare on Plate	5	4	0	0	0	0	2			
Glare on Windshield	6	7	2	2	2	16	8			
Illegible Plate	4	5	7	4	6	7	4			
Interest of Justice- PD	0	0	0	0	0	0	0			
Image Quality- PD Issuance Criteria Not Met- PD	0	1	0	2	4	3	1 0			
No Warning Sign	0	0	0	0	0	0	0			
No Plate	43	52	26	32	32	33	40			
No Speed Captured	0	0	0	0	0	0	0			
Obstruction In Photo- PD	6	3	4	5	5	1	5			
Out of State Plate Obstructed	8	6 5	5	4	8 2	2	4			
Short Yellow- PD	4	0	0	2	0	4	0			
Third Party Damage	0	0	0	0	0	0	0			
TSB Epired	0	0	0	0	0	0	0			
TSB No Hit	0	0	16	8	31	20	32			
Total:	91	104	74	69	106	91	106			
Controllable Non-Iss Cnduent Expire	ued Violations 0	0	0	0	0	0	0			
Clarity of Plate	0	0	0	0	0	0	0			
Clarity of Driver	0	0	0	0	0	0	0			
Dark Interior	2	1	0	1	1	2	3			
Data Box Related- PD	0	0	0	0	0	0	0			
Data Box Data Error- PD	0	0	0	0	0	0	0			
Data Entry Error Emergency Vehicle Issue	0	0	1	0	0	1 0	0			
Exposed	0	0	0	0	0	0	0			
Equipment Malfunction	0	0	0	0	0	0	0			
Framing- PD	0	0	0	0	0	0	0			
Framing of Car	0	0	0	1	2	1	0			
Framing of Driver	0	0	0	0	0	0	0			
Operator Error Framing of Plate	0	0	0	0	0	0	0			
Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined	0	0	1	0	0	0	0			
Total:		1	2	2	3	4	3			
Summary Metrics				1		1				
Daily Average Vehicle Passes	0	0	0	0	0	0	0			
· · · · · · · · · · · · · · · · · · ·							4.0			
Average Issued Speed	19 6.0	19 10.0	19 11 2	18	19 13 3	19 12 0	18			
Average Issued Red Seconds	6.0	10.0	11.2	13.8	13.3	12.0	9.2			

### Los Angeles County MTA Blue Line Approach Summary Report Location 2003: EB to NB Washington @ Los Angeles Left Turn Movements

Citations □ Controllable Non-Issued Uncontrollable Non-Issued Year to Date Average Quantity % Nov-18 Oct-18 Dec-18 456 66% 231 34% 687 100% 40% 92 2 1% 137 59% 231 100% 3 1% 1 0% 0 0% 0% 0 362 79% 0% 1 0% 0 90 20% 0 0% 0% 1 458 100% 0% 0 2% 3 9 8% 7 7% 3% 3 0% 0 3% 4 6% 6 5% 5 0 0% 2 2% 0% 0 0 0% 37 33% 0% 0 4 4% 5% 5 3 3% 0 0% 0 0% 0 0% 21 19% 110 100% 0 0% 0 0% 0 0% 2 33% 0% 0 0 0% 1 20% 0 0% 0 0% 0 0% 0% 0 27% 1 0 0% 0 0% 0% 0 0% 0 1 20% 100% 5 Year to Date Average 0 19 10.8 59% 98%



Image: state	100%							_						]				
CA         CA <thca< th="">         CA         CA         CA<!--</th--><th></th><th></th><th>2</th><th></th><th>2</th><th></th><th>4</th><th>6</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thca<>			2		2		4	6										
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no.         no. <th>40%</th> <th>0</th> <th></th> <th>3</th> <th></th> <th>12</th> <th></th>	40%	0		3		12												
Table         Or         OR        OR        OR         OR	20%	2	3		4		8	8							Uncontrollab	e Non-Issued		
Parts         sold         Sold 2014         Sold 2014         Sold 2014         Parts										0	0							
Number of a set		Jan-18	Feb-18	Mar-18	Apr-18	Mav-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18		Date Average			
Total         Total <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th>-</th><th></th><th>•</th><th></th><th></th><th></th><th></th><th>97%</th><th></th><th></th></t<>							1	-		•					97%			
Unstant         <					*													
Description         Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		330	290	315	320	348	336	305						321	100%			
Cindro 3 2 3 2 4 4 6 0 3 31 31 31 31 31 31   The strategy 5 3 3 7 77 <t< td=""><td>controllable Non-Issued</td><td>2</td><td>3</td><td>0</td><td>4</td><td>12</td><td>8</td><td>8</td><td></td><td></td><td></td><td></td><td></td><td>6</td><td>58%</td><td></td><td></td></t<>	controllable Non-Issued	2	3	0	4	12	8	8						6	58%			
Total         Tot         Tot <thtot< th=""> <thtot< <="" td=""><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td></thtot<></thtot<>					1	1	1							1				
Changen Water Marte         1         2         1         0				1		4 17	•											
instact         i<												1						
number         number<		1	2	1	3	1	1	1						1	0%			
Decrement         Decrement <thdecrement< th=""> <thdecrement< th=""> <thd< td=""><td>are oction L'ontrol in</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thd<></thdecrement<></thdecrement<>	are oction L'ontrol in																	
No.Vision Concerning214211221223232241214214234736	Daraee- DD																	
Rev         Rev         Control         Contro <thcontro< th=""> <thcontro< td="" th<=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thcontro<></thcontro<>																		
Tact Bon         PA         66         0 <th0< td=""><td>ar Axle Activation</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>0%</td><td></td><td></td></th0<>	ar Axle Activation	0	0	0	0	0		0						0	0%			
Arbor         O <td></td>																		
Name         0 <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>/ ð 0</td> <td>•</td> <td></td>					0	/ ð 0	•											
<th constrai<="" td=""><td>hicle Stopped- PD</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>0%</td><td></td><td></td></th>	<td>hicle Stopped- PD</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0%</td> <td></td> <td></td>	hicle Stopped- PD	0	0	0			0							0	0%		
Annusinal Districtal         0		1		312	313	331	323	291						311	100%			
Condems Bayer Correit         O				0	0	0	0	0						0	0%			
One of extreme       0       0       0       1       1       0       0       1       0																		
Diver Obstructed       1       0						0	0							0				
Gene or hum       0      0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td>1</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td></th<>						1	4							2				
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mage datemage date <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>						0	1							1				
submance strain Not Marche Po00	erest of Justice- PD	0	0	0	0	0	0	0						0				
No Warring Sign No Paire00<																		
No Platic No Speed Capute Destination In Phase-PD11034144000<																		
Obsistation in Photo- PD         0 <td>Plate</td> <td>•</td> <td>1</td> <td>0</td> <td>3</td> <td>4</td> <td>1</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Plate	•	1	0	3	4	1	•										
Ord of State         O         O         O         O         O         I         O         I         B           Short Yellow PD         O </td <td></td>																		
Shot Yellow PD         0						1								1				
Third Party Damage       0		0	0	0	0	0	0	0						0				
TSB Epriced       0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																		
TSB No Hit       0       0       1       4       1       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       4       6       0       0       3       10%       7         Controllable Non-USALION       Controllable Non-USALION       Controllable Non-USALION       Controllable Non-USALION       0 <td></td>																		
Controllable Non-Issued Violations           Cnduent Expire         0	B No Hit			****	1		1											
Chduent Expire         0			3	0	4	12	8	8						13	100%			
Clarity of Plate       0			0	0	0	0	0	0						0	0%			
Dark Interior         0         0         1         0         0         0         1         50%           Data Box Related-PD         0 <td>arity of Plate</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0%</td> <td></td> <td></td>	arity of Plate					0		_							0%			
Data Box Related- PD       0						0								0				
Data Box Data Error-PD       0 <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td>						0								0				
Emergency Vehicle Issue       0 <td>ta Box Data Error- PD</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0%</td> <td></td> <td></td>	ta Box Data Error- PD	0	0	0				0							0%			
Exposed00 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td>					1		1							1				
Equipment Malfunction00																		
Framing of Car000<	uipment Malfunction	0	0	0	0	0	0	0						0	0%			
Framing of Driver000 </td <td></td>																		
Operator Error000																		
Reject Expired $0$	erator Error	0	0	0	0	0	0	0						0	0%			
Speed Not Determined $0$																		
Total:00011001010Summary MetricsDaily Average Vehicle Passes00 <td></td>																		
Daily Average Vehicle Passes         O	Total:					1	1							2	100%			
		0	0	0	0	0	^	0						Year to D	-			
Average Issued Red Seconds 251.7 0.6 0.5 0.5 139.4 93.2 7.3 (c) 10.5 0.5 0.5 0.5 139.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5																		
Citiation / Violation Issuance Rate 60% 40% 100% 29% 24% 31% 43%	ation / Violation Issuance Rate	60%	40%	100%	29%	24%	31%	43%						4	17%			
Controllable Issuance Rate 100% 100% 100% 67% 80% 80% 100% 100% 100%	trollable Issuance Rate 1	100%	100%	100%	67%	80%	80%	100%						ę	90%			

# Los Angeles County MTA Blue Line Approach Summary Report Location 2008 WB to SB Washington @ Los Angeles Left Turn Movements



100%										
80%										
	61	60	87	87	74	72	79			
60%					-6-					
40%										
20%	67	68	86	69	92	87	111			
0%								0	0	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oc
Non-Violations	489	506	516	473	491	446	447			
Violations Total:	130 <b>619</b>	129 635	177 <b>693</b>	158 <b>631</b>	172 663	162 <b>608</b>	193 <b>640</b>			
Violations	013	000	095	031	005	000	040			
Uncontrollable Non-Issued	67	68	86	69	92	87	111			
Controllable Non-Issued Citations	2 61	1 60	4 87	2 87	6 74	3 72	3 79			
Total:	<b>130</b>	129	07 177	158	172	162	193			
Non-Violations										
Emergency Vehicle Non- Issuable	2	4	2	2	4	3	1			
Emergency Vehicle PD	0	0	0	0	1	0	0			
Intersection Control in Progress- PD	0	0	0	0	0	1	0			
Gate Down/ No Train	0	0	0	0	0	0	0			
No Violation Occurred	395	412	417	381	400	352	365			
Rear Axle Activation	0	0	0	0	0	0	0			
Right Turn- No Violation Test Shot	0 92	0 90	0 97	0 90	0 85	0 90	0 81			
Amber Time Low	0	0	0	0	0	0	0			
Vehicle Stopped- PD	0	0	0	0	1	0	0			
Total: Uncontrollable Non-I	489 ssued Violations	506	516	473	491	446	447			
Administrative Dismissal	0	0	0	0	0	0	0			
Car Obstructed	11	10	12	11	18	13	17			
Conditions Beyond Control	0	0	0	0	0	0	0			
Driver Identity Unclear Driver Obstructed	3 3	9 5	7 8	5	3 8	1 8	8			
Exposed	0	0	0	0	0	0	0			
Glare on Plate	7	3	3	3	0	2	3			
Glare on Windshield	6	11	9	6	2	5	11			
Illegible Plate Interest of Justice- PD	2 0	1	3	1	0	0	3			
Image Quality- PD	0	0	0	3	2	3	2			
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0			
No Warning Sign	0	0	0	0	0	0	0			
No Plate No Speed Captured	25 0	26 0	23 0	18 0	25 0	24 0	24 0			
Obstruction In Photo- PD	3	2	2	5	3	3	1			
Out of State	2	0	1	4	0	6	3			
Plate Obstructed	5	1	1	2	2	3	2			
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0			
TSB Epired	0	0	0	0	0	0	0			
TSB No Hit	0	0	17	4	29	19	34			
Total: Controllable Non-Iss	67	68	86	69	92	87	111		_	
Cnduent Expire		0	0	0	0	0	0			
Clarity of Plate	0	0	0	0	0	0	0			
Clarity of Driver	0	0	0	0	0	0	0			
Dark Interior Data Box Related- PD	0	0	2	1 0	2	3 0	2			
Data Box Data Error- PD	0	0	0	0	0	0	0			
Data Entry Error	0	1	1	0	0	0	0			
Emergency Vehicle Issue	0	0	0	0	0	0	0			
Exposed Equipment Malfunction	0	0	0	0	0	0	0			
Framing- PD	0	0	0	0	0	0	0			
Framing of Car	0	0	1	0	4	0	0			
Framing of Driver	2	0	0	0	0	0	1			
Operator Error Framing of Plate	0	0	0	0	0	0	0			
Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined	0	0	0	1	0	0	0			
Total:	2	1	4	2	6	3	3			
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0			
Average Issued Speed	19	18	19	19	19	19	18			
Average Issued Red Seconds	8.1	3.0	6.1	10.2	3.1	3.1	1.7			
Citiation / Violation Issuance Rate	47%	47%	49%	55%	43%	44%	41%			
Controllable Issuance Rate	97%	98%	96%	98%	93%	96%	96%			
										_

### Los Angeles County MTA Blue Line Approach Summary Report Location 2017: EB to NB Washington @ San Pedro Left Turn Movements

Citations □Controllable Non-Issued Uncontrollable Non-Issued Year to Date Average Quantity % Nov-18 Dec-18 Oct-18 481 75% 160 25% 641 100% 52% 83 3 2% 46% 74 160 100% 3 1% 1 0% 0% 1 0% 0 389 80% 0% 0 0% 0 89 18% 0 0% 0% 1 484 100% 0% 0 13 14% 0 0% 6% 5 7% 6 0 0% 4 4% 8% 7 2% 2 0 0% 3 3% 0% 0 0% 0 24 26% 0 0% 3 3% 3% 3 2 2% 0 0% 0 0% 0 0% 21 22% 92 100% 0 0% 0 0% 0 0% 2 25% 0% 0 0 0% 1 13% 0 0% 0 0% 0 0% 0% 0 31% 3 2 19% 0 0% 0% 0 0% 0 1 13% 100% 8 Year to Date Average 0 19 5.0 47% 96%



100%															
80%	24	16	23	19	24	21	33								
60%			7	4	8		13							Citations	
40%	16													Controllable No	on-Issued
		31	45	40	43	68	67							Uncontrollable	Non-Issued
20%	31														
0%								0	0	0	0	0			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Dat Quantity	%	
Non-Violations Violations	336 71	322 50	358 75	284 63	293 75	340 96	299 113						319 78	80% 20%	
Total:		372	433	347	368	436	412						396	100%	
Violations										1	1				
Uncontrollable Non-Issued Controllable Non-Issued	31 16	31 3	45 7	40	43 8	68 7	67 13						46 8	60% 11%	
Citations	24	16	23	19	24	21	33						23	29%	
Total:	71	50	75	63	75	96	113						78	100%	
Non-Violations Emergency Vehicle Non-						1					1				
Issuable	4	4	5	2	2	4	4						4	1%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Intersection Control in Progress- PD	0	0	0	0	0	0	0						0	0%	
Gate Down/ No Train	0	0	0	0	0	0	0						0	0%	
No Violation Occurred Rear Axle Activation	249 0	205 0	233 0	194 0	205 0	246 0	215 0						221 0	69% 0%	
Rear Axie Activation Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot	83	113	120	88	86	89	80						94	29%	
Amber Time Low	0	0	0	0	0	0	0						0	0%	
Vehicle Stopped- PD Total:	0 <b>336</b>	0 322	0 <b>358</b>	0 <b>284</b>	0 <b>293</b>	1 <b>340</b>	0 <b>299</b>						1 320	0% 100%	
Uncontrollable Non-I				201	200	010	200						020	10070	
Administrative Dismissal	0	0	0	0	0	0	0				Quantum and a second		0	0%	
Car Obstructed	3	2	1	6	1	1	2						2	4%	
Conditions Beyond Control Driver Identity Unclear	0 6	03	0	0	0 2	0 4	03						03	0% 6%	
Driver Obstructed	6	6	7	8	4	8	10						7	13%	
Exposed	0	0	0	0	0	0	0						0	0%	
Glare on Plate Glare on Windshield	0 4	2 5	2 6	1 6	5	6 11	8						4 6	8% 11%	
Illegible Plate	2	2	1	0	1	2	1						2	3%	
Interest of Justice- PD	0	0	0	0	0	0	0						0	0%	
Image Quality- PD	0	0	1	0	1	0	0						1	2%	
Issuance Criteria Not Met- PD No Warning Sign	0 0	0	0	0	0	0	0						0	0% 0%	
No Plate	6	8	13	7	6	16	10						9	18%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD Out of State	2 0	1	2	3	3	5 0	5 0						3	6% 3%	
Plate Obstructed	2	2	1	1	2	2	2						2	3%	
Short Yellow- PD	0	0	0	0	0	0	0						0	0%	
Third Party Damage	0	0	0	0	0	0	0						0	0%	
TSB Epired TSB No Hit	0 0	0	0 10	0	0 14	0 13	0 19						0 12	0% 23%	
Total:		31	45	40	43	68	67						52	100%	
Controllable Non-Iss															
Cnduent Expire Clarity of Plate	0 0	0	0	0	0	0	0						0	0% 0%	
Clarity of Plate	0	0	0	0	0	0	0						0	0%	
Dark Interior	4	0	0	2	0	3	4						3	26%	
Data Box Related- PD	0	0	0	0	0	0	0						0	0%	
Data Box Data Error- PD Data Entry Error	0	0	0	0	0	0	0						0	0% 0%	
Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0%	
Exposed	0	0	0	0	0	0	0						0	0%	
Equipment Malfunction	0	2	0	1	0	0	0						2	12%	
Framing- PD Framing of Car	0 11	0	0 7	0	0 8	0 4	0 8						0 6	0% 46%	
Framing of Driver	1	0	0	0	0	0	0						1	8%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate Reject Expired	0 0	0	0	0	0	0	1 0						1 0	8% 0%	
Speed Not Determined	0	0	0	0	0	0	0						0	0%	
Total:		3	7	4	8	7	13						12	100%	
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0						Year to Dat	-	
Average Issued Speed	0 19	0 18	0 18	0 19	0 18	0 18	0 18						18		
Average Issued Red Seconds	0.7	7.1	12.3	11.9	4.3	6.6	7.3						7.	2	
Citiation / Violation Issuance Rate	34%	32%	31%	30%	32%	22%	29%						30		
Controllable Issuance Rate	60%	84%	77%	83%	75%	75%	72%	A Martine Control of C					75	70	

# Los Angeles County MTA Blue Line Approach Summary Report Location 2018: WB to SB Washington @ San Pedro Left Turn Movements



4000/															
100% -			4		1	2	4								
80% -	3	3		3		1								Citations	
60% -				1									_		
	0				7									Controllable	Non-Issued
40% -		5	10	5		8	14								ble Non-Issued
20% -	3														
0% -								0	0	0	0	0			
070													Year to D	ate Average	
5	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quantity	%	
	524 6	472 8	580 15	508 9	562 8	478 11	441 19						509 11	98% 2%	
Total:	530	480	595	517	<b>570</b>	489	<b>460</b>						520	100%	
IS											1		0_0		
n-Issued	3	5	10	5	7	8	14						7	66%	
ssued	0	0	1	1	0	1	1						1	9%	
	3	3	4	3	1	2	4						3	25%	
Total:	6	8	15	9	8	11	19						11	100%	
lations			1					1					1		
e Non-	2	2	1	0	1	3	2						2	0%	
e PD	0	0	0	0	0	0	0						0	0%	
n in	0	0	0	0	0	0	0						0	0%	
ain	0	0	0	0	0	0	0						0	0%	
rred	442	391	490	431	480	383	362						426	84%	
on Jatian	0	0	0	0	0	0	0						0	0%	
olation	0 80	0 79	0 89	0 77	0 81	0 92	0 77						0 82	0% 16%	
	0	0	0	0	0	92	0						0	0%	
PD	0	0	0	0	0	0	0						0	0%	
Total:	524	472	580	508	562	478	441						510	100%	
	ssued Violation	S	1					1					-		
missal	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	1						1	8%	
d Control	0	0	0	0	0	0	0						0	0%	
lear	0	1	0	0	0	0	1						1	8%	
	0	0	1	0	1	0	1						1	8%	
	0 2	0	0	0	0	0	0						0	0% 12%	
ld	0	0	2	0	0	1	0						2	8%	
-iQ	0	2	3	1	0	2	2						2	15%	
PD	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
Not Met- PD	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
	1	1	2	3	5	3	7						3	24%	
d	0	0	0	0	0	0	0						0	0%	
oto- PD	0	0	0	0	0	0	0						0	0% 8%	
	0	0	0	0	0 0	0 0	1 0						1	0%	
	0	0	0	0	0	0	0						0	0%	
je	0	0	0	0	0	0	0						0	0%	
· · · · · · · · · · · · · · · · · · ·	0	0	0	0	0	0	0						0	0%	
	0	0	1	0	0	2	1						1	10%	
Total:	3	5	10	5	7	8	14						13	100%	
able Non-Issu	ued Violations		1												
	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0% 33%	
PD	0	0	0	0	0	0	0						0	0%	
or- PD	0	0	0	0	0	0	0						0	0%	
	0	0	1	0	0	0	1						1	33%	
e Issue	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
ction	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	1	0						1	33%	
	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0% 0%	
	0	0	0	0	0	0	0						0	0%	
ined	0	0	0	0	0	0	0						0	0%	
Total:	0	0	1	1	0	1	1						3	100%	
Metrics													Year to D	ate Average	
Passes	0	0	0	0	0	0	0							0	
-	18	15	21	16	0	17	17							17	
econds	31.7	14.5	24.3	173.2	0.0	53.8	214.9							35.4	
uance Rate	50% 100%	38%	27% 80%	33% 75%	13%	18% 67%	21% 80%							28% 66%	
Rate	100%	100%	80%	10%	100%	67%	80%	Venne			1	Y	1 8	0.70	1

80% - 60% - 40% - 20% - 0% -	3 0 3	3 0 5	4 1 10	3 1 5	7	2 1 8	4	0	0	0	0	0		□ Citations □ Controllable I □ Uncontrollabl	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to D Quantity	ate Average %	
Non-Violations	524	472	580	508	562	478	441						509	98%	
Violations Total:	6 <b>530</b>	8 <b>480</b>	15 <b>595</b>	9 <b>517</b>	8 <b>570</b>	11 <b>489</b>	19 <b>460</b>						11 520	2% 100%	
Violations Uncontrollable Non-Issued	2	F	10	F	7	8	4.4						7	CC0/	
Controllable Non-Issued	3	5	10 1	5	0	8 1	14 1						1	66% 9%	
Citations	3	3	4	3	1	2	4						3	25%	
Total: Non-Violations	6	8	15	9	8	11	19						11	100%	
Emergency Vehicle Non- Issuable	2	2	1	0	1	3	2						2	0%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Intersection Control in Progress- PD Cate Down/ No Train	0	0	0	0	0	0	0						0	0% 0%	
Gate Down/ No Train No Violation Occurred	0 442	391	0 490	0 431	0 480	0 383	0 362						426	0% 84%	
Rear Axle Activation	0	0	0	0	0	0	0						0	0%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot Amber Time Low	80 0	79 0	89 0	77 0	81 0	92 0	77 0						82 0	16% 0%	
Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0%	
Total:	524	472	580	508	562	478	441						510	100%	
Uncontrollable Non-Is Administrative Dismissal	sued Violations	s0	0	0	0	0	0						0	0%	
Car Obstructed	0	0	0	0	0	0	1						1	8%	
Conditions Beyond Control	0	0	0	0	0	0	0						0	0%	
Driver Identity Unclear	0	1	0	0	0	0	1						1	8%	
Driver Obstructed Exposed	0	0	1 0	0	0	0	0							8% 0%	
Glare on Plate	2	1	2	0	1	0	0						2	12%	
Glare on Windshield	0	0	1	0	0	1	0						1	8%	
Illegible Plate	0	2	3	1	0	2	2						2	15% 0%	
Interest of Justice- PD Image Quality- PD	0	0	0	0	0	0	0						0	0%	
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign	0	0	0	0	0	0	0						0	0%	
No Plate No Speed Captured	1 0	1 0	2	3 0	5 0	3 0	7 0						3	24% 0%	
Obstruction In Photo- PD	0	0	0	0	0	0	0						0	0%	
Out of State	0	0	0	1	0	0	1						1	8%	
Plate Obstructed	0	0	0	0	0	0	0						0	0%	
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0						0	0% 0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit	0	0	1	0	0	2	1						1	10%	
Total:	3	5	10	5	7	8	14						13	100%	
Controllable Non-Issu Cnduent Expire	ed Violations	0	0	0	0	0	0						0	0%	
Clarity of Plate	0	0	0	0	0	0	0						0	0%	
Clarity of Driver	0	0	0	0	0	0	0						0	0%	
Dark Interior Data Box Related- PD	0	0	0	1	0	0	0						1	33% 0%	
Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%	
Data Entry Error	0	0	1	0	0	0	1						1	33%	
Emergency Vehicle Issue	0	0	0	0	0	0	0						0	0%	
Exposed Equipment Malfunction	0	0	0	0	0	0	0						0	0% 0%	
Framing- PD	0	0	0	0	0	0	0						0	0%	
Framing of Car	0	0	0	0	0	1	0						1	33%	
Framing of Driver	0	0	0	0	0	0	0						0	0% 0%	
Operator Error Framing of Plate	0	0	0	0	0	0	0						0	0%	
Reject Expired	0	0	0	0	0	0	0						0	0%	
Speed Not Determined	0	0	0	0	0	0	0						0	0%	
Total: Summary Metrics	0	0	1	1	0	1	1						3 Year to D	100% ate Average	
Daily Average Vehicle Passes	0	0	0	0	0	0	0							0	
Average Issued Speed	18	15	21	16	0	17	17							17	
Average Issued Red Seconds	31.7	14.5	24.3	173.2	0.0	53.8	214.9							35.4	
Citiation / Violation Issuance Rate Controllable Issuance Rate	50% 100%	38% 100%	27% 80%	33% 75%	13% 100%	18% 67%	21% 80%							8% 6%	
Service and the trace	100 /0	100/0	00 /0	i J /0	100/0	UT /0	00 /0						I C		

# Los Angeles County MTA Blue Line Approach Summary Report Location 2027: EB to NB Washington @ Broadway Left Turn Movements



100%															
	10														
80% -	18	17	35	24	36	21	17							Citations	
60% -	4													Controllable No	n-lssued
40%	_	3		<b>_</b>	4	4	_								
20%	24	13	20	20	29	17	18							Uncontrollable N	NON-ISSUED
0%										0	0				
nts	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to Da Quantity	ate Average	
	1,034	969	1,024	980	1,002	1,029	942	-	-				997	96%	
<b></b>	46	33	55	44	69	42	37						47	4%	
Total:	1,080	1,002	1,079	1,024	1,071	1,071	979						1,044	100%	
Non-Issued	24	13	20	20	29	17	18						20	42%	
n-Issued	4	3	0	0	4	4	2						3	7%	
Total:	18 <b>46</b>	17 33	35 <b>55</b>	24 <b>44</b>	36 <b>69</b>	21 <b>42</b>	17 <b>37</b>						24 48	50% 100%	
Violations							01						-10	100 / 0	
nicle Non-	0	0	0	0	0	0	0						0	0%	
nicle PD	0	0	0	0	0	0	0						0	0%	
ntroi in	0	0	0	0	0	0	0						0	0%	
Train	0 915	0 840	0 889	0 827	0 869	0 880	0 783						0 858	0% 86%	
curred ation	0	0	1	0	0	0	0						1	0%	
Violation	0	0	0	0	0	0	0						0	0%	
	119	129	134	153	133	149	159						139	14%	
w d- PD	0	0	0	0	0 0	0	0						0	0% 0%	
Total:	1,034	969	1,024	980	1,002	1,029	942						998	100%	
	ssued Violations		-	2	0	2	2							<b>0</b> 0/	
Dismissal	0 0	0	0	0	0	0	0						0	0% 3%	
ond Control	0	0	0	0	0	0	0						0	0%	
Inclear	2	0	1	1	1	0	0						1	4%	
ed	1	0	6 0	2	5 0	4	3 0						4	12% 0%	
	0 13	1	1	0	0	0	0						5	17%	
hield	0	0	0	2	0	0	0						2	7%	
	0	0	0	0	0	0	0						0	0%	
ce- PD PD	0	0	0	0	0	0	0						0	0% 0%	
a Not Met- PD		0	0	0	0	0	0						0	0%	
ŋn	0	0	0	0	0	0	0						0	0%	
ured	7 0	9	6 0	11 0	10 0	9 0	7 0						8 0	29% 0%	
Photo- PD	1	2	0	1	1	0	0						1	4%	
	0	0	1	0	2	1	2						2	5%	
d D	0	1	1 0	0	2	0	1 0						1 0	4% 0%	
nage	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
<b>7</b> -4-1	0	0	4	3	7	2	5						4	14%	
Total: rollable Non-Iss	24 ued Violations	13	20	20	29	17	18						29	100%	
	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0%	
	0	0	0	0	0	0	0						0	0% 11%	
ed- PD	0	0	0	0	0	0	0						0	0%	
Error- PD	0	0	0	0	0	0	0						0	0%	
r nicle Issue	0	1 0	0	0	0	2	0						2 0	17% 0%	
	0	0	0	0	0	0	0						0	0%	
unction	3	2	0	0	0	0	0						3	28%	
	0	0	0	0	0 2	0	0						0 2	0% 22%	
er	1	0	0	0	1	1	1						1	11%	
	0	0	0	0	0	0	0						0	0%	
9	0	0	0	0	0	0	0						0	0% 0%	
ermined	0	0	0	0	0	0	1						0	11%	
Total:	4	3	0	0	4	4	2						9	100%	
ary Metrics	0	<u>^</u>	^	<u>^</u>	0	0	0							ate Average	
cle Passes eed	0 15	0 15	0 16	0 16	0 15	0 16	0 17							0 16	
d Seconds	2.4	5.0	3.9	3.7	7.5	4.7	3.0						4	.3	
Issuance Rate	39%	52%	64%	55%	52%	50%	46%							1%	
ce Rate	82%	85%	100%	100%	90%	84%	89%	Venerotor					90	0%	

80%							47								
60% —		17	35	24	36	21	17							Citations	
40%	4	3			4	4							c	Controllable	Non-Issued
20% -	24		-0	20	29	17	18						c	Uncontrollab	le Non-Issued
0%		13	20		29			0	2	2	0	<u>_</u>			
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	U Aug-18	Sep-18	Oct-18	0 Nov-18	Dec-18	Year to D	ate Average	
Non-Violations	1,034	969	1,024	980	1,002	1,029	942						997	96%	
Violations Total:	46 <b>1,080</b>	33 <b>1,002</b>	55 <b>1,079</b>	44 <b>1,024</b>	69 <b>1,071</b>	42 <b>1,071</b>	37 <b>979</b>						47	4% 100%	
Violations	1,000	1,002	1,073	1,024	1,071	1,071	515						1,044	10078	
Uncontrollable Non-Issued Controllable Non-Issued	24	13 3	20	20	29	17	18						20 3	42% 7%	
Citations	4 18	17	0 35	0 24	4 36	4 21	2 17						24	50%	
Total:	46	33	55	44	69	42	37						48	100%	
Non-Violations Emergency Vehicle Non-	0	0	0	0	0	0	0						0	0%	
Issuable Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Emergency Vehicle PD Intersection Control in Progress- PD	0	0	0	0	0	0	0						0	0%	
Gate Down/ No Train No Violation Occurred	0 915	0 840	0 889	0 827	0 869	0 880	0 783						0 858	0% 86%	
Rear Axle Activation	915 0	0 840	1	0	0	0	783 0						1	86% 0%	
Right Turn- No Violation	0	0	0	0	0	0	0						0	0%	
Test Shot Amber Time Low	119 0	129 0	134 0	153 0	133 0	149 0	159 0						139 0	14% 0%	
Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0%	
Total: Uncontrollable Non-Iss	1,034 sued Violations	969	1,024	980	1,002	1,029	942						998	100%	
Administrative Dismissal	0	0	0	0	0	0	0						0	0%	
Car Obstructed Conditions Beyond Control	0 0	0	0	0	1 0	1 0	0						1 0	3% 0%	
Driver Identity Unclear	2	0	1	1	1	0	0						1	4%	
Driver Obstructed	1	0	6	2	5	4	3						4	12%	
Exposed Glare on Plate	0 13	0	0	0	0	0	0						05	0% 17%	
Glare on Windshield	0	0	0	2	0	0	0						2	7%	
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0	0						0	0% 0%	
Image Quality- PD	0	0	0	0	0	0	0						0	0%	
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%	
No Warning Sign No Plate	0 7	0 9	0	0	0 10	0 9	0 7						0 8	0% 29%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD Out of State	1 0	2	0	1 0	1 2	0	0						1	4% 5%	
Plate Obstructed	0	1	1	0	2	0	1						1	4%	
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0						0	0% 0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit	0	0	4	3	7	2	5						4	14%	
Total: Controllable Non-Issue	24 ed Violations	13	20	20	29	17	18						29	100%	
Cnduent Expire	0	0	0	0	0	0	0						0	0%	
Clarity of Plate Clarity of Driver	0	0	0	0	0	0	0						0	0% 0%	
Dark Interior	0	0	0	0	1	1	0						1	11%	
Data Box Related- PD Data Box Data Error- PD	0	0	0	0	0	0	0						0	0% 0%	
Data Entry Error	0	1	0	0	0	2	0						2	17%	
Emergency Vehicle Issue	0	0 0	0	0	0	0 0	0						0	0% 0%	
Exposed Equipment Malfunction	0 3	0	0	0	0	0	0						03	0% 28%	
Framing- PD	0	0	0	0	0	0	0						0	0%	
Framing of Car Framing of Driver	0	0	0	0	2	0	0						2	22% 11%	
Operator Error	0	0	0	0	0	0	0						0	0%	
Framing of Plate Reject Expired	0	0	0	0	0	0	0						0	0% 0%	
Speed Not Determined	0	0	0	0	0	0	1						1	11%	
Total: Summary Metrics	4	3	0	0	4	4	2						9 Vear to D	100% ate Average	
Daily Average Vehicle Passes	0	0	0	0	0	0	0							0	
Average Issued Speed	15	15	16	16	15	16	17							16	
Average Issued Red Seconds Citiation / Violation Issuance Rate	2.4 39%	5.0 52%	3.9 64%	3.7 55%	7.5 52%	4.7 50%	3.0 46%							4.3 1%	
Controllable Issuance Rate	82%	85%	100%	100%	90%	84%	89%							0%	

# Los Angeles County MTA Blue Line Approach Summary Report Location 2036: SB to EB Flower @ 18th St Left Turn Movements



100% -	2												1	
80% -	2	9	8	5	7	5 3	4							Citationa
60% -		2	<b>0</b>	3										
40% -	17		17		21	19	15							Controllable Non-Issued
20% -		12	17	12										Uncontrollable Non-Issued
0% -								0		0				
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Year to D Quantity	ate Average
Non-Violations	631	556	654	575	649	678	569		•				616	96%
Violations Total:	21 <b>652</b>	23 579	25 679	20 <b>595</b>	29 678	27 <b>705</b>	19 <b>588</b>						23 639	4% 100%
Violations	032	515	019	333	010	105	500						039	100 %
Uncontrollable Non-Issued	17	12	17	12	21	19	15						16	67%
Controllable Non-Issued Citations	2	2 9	0 8	3	1	3	0 4						2	9% 24%
Total:	21	23	25	20	29	27	19						24	100%
Non-Violations Emergency Vehicle Non-			1								1		1	
Issuable	0	0	0	0	0	0	0						0	0%
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%
Brogress- PD Gate Down/ No Train	0	0	0	0	0	0	0						0	0%
No Violation Occurred	548	470	563	491	551	560	482						524	85%
Rear Axle Activation Right Turn- No Violation	0	0	0	0	0	0	0						0	0%
Test Shot	83	85	91	84	98	118	87						92	15%
Amber Time Low	0	0	0	0	0	0	0						0	0%
Vehicle Stopped- PD Total:	0 <b>631</b>	1 <b>556</b>	0 <b>654</b>	0 575	0 649	0 678	0 <b>569</b>						1 617	0% 100%
Uncontrollable Non-Is	ssued Violations	3	1								· ·		T	
Administrative Dismissal Car Obstructed	0	0	0	0	0	0	0						0	0% 14%
Conditions Beyond Control	0	0	0	0	0	0	0						0	0%
Driver Identity Unclear	1	0	2	0	2	0	0						2	7%
Driver Obstructed Exposed	6 0	5 0	7 0	0	7 0	6 0	6 0						6 0	24% 0%
Glare on Plate	2	1	0	0	0	0	1						1	5%
Glare on Windshield	1	0	1	1	1	0	0						1	4%
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0	0						0	0% 4%
Image Quality- PD	0	0	0	0	0	0	0						0	0%
Issuance Criteria Not Met- PD	0	0	0	0	0	0	0						0	0%
No Warning Sign No Plate	0 4	0 4	0 4	0 3	0 9	0 11	0 6						0 6	0% 23%
No Speed Captured	0	0	0	0	0	0	0						0	0%
Obstruction In Photo- PD Out of State	2 0	2	1	0	0	0	1						2	6% 5%
Plate Obstructed	0	0	0	0	0	0	1						1	4%
Short Yellow- PD	0	0	0	0	0	0	0						0	0%
Third Party Damage	0	0	0	0	0	0	0						0	0%
TSB No Hit	0	0	1	0	1	1	0						1	4%
Total:	<b>17</b>	12	17	12	21	19	15						25	100%
Controllable Non-Issu Cnduent Expire	ued Violations	0	0	0	0	0	0						0	0%
Clarity of Plate	0	0	0	0	0	0	0						0	0%
Clarity of Driver Dark Interior	0	0	0	03	0	0	0						03	0% 47%
Dark Interior Data Box Related- PD	0	2	0	0	0	0	0						0	0%
Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%
Data Entry Error Emergency Vehicle Issue	2	0	0	0	0	0	0						2	35% 0%
Exposed	0	0	0	0	0	0	0						0	0%
Equipment Malfunction	0	0	0	0	0	0	0						0	0%
Framing- PD Framing of Car	0	0	0	0	0	0	0						0	0%
Framing of Driver	0	0	0	0	0	0	0						0	0%
Operator Error	0	0	0	0	0	0	0						0	0%
Framing of Plate Reject Expired	0	0	0	0	0	0	0						0	0%
Speed Not Determined	0	0	0	0	1	0	0						1	18%
Total:	2	2	0	3	1	3	0						6 Voor to Dr	100%
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0							0 ate Average
Average Issued Speed	16	17	19	21	20	17	18							18
Average Issued Red Seconds	1.3	3.6	2.4	0.9	0.8	2.8	0.9							.8
Citiation / Violation Issuance Rate	10%	39%	32%	25%	24%	19%	21%							4%
Controllable Issuance Rate	50%	82%	100%	63%	88%	63%	100%				No. 101		7	8%

# Los Angeles County MTA Blue Line Approach Summary Report Location 2046: SB to EB Flower @ 10 Fwy Onramp Left Turn Movements



100% -	6		5	2			0								
80% -	10	12	18	9	12	<u>8</u>	10							Citations	
60% -		8			11									Controllable Nor	I-Issued
40% -	20		30	18		19	16							Uncontrollable N	on-Issued
20% -		15			15										
0% -	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	0 Aug-18	0 Sep-18	0 Oct-18	0 Nov-18	0 Dec-18		Date Average	
Non-Violations	128	121	133	139	142	161	137	Aug-16	3ep-10	001-10	1100-10	Dec-18	Quantity 137	79%	
Violations Total:	36 <b>164</b>	35 <b>156</b>	53 <b>186</b>	29 <b>168</b>	38 <b>180</b>	33 <b>194</b>	26 <b>163</b>						36 173	21% 100%	
Violations			1												
Uncontrollable Non-Issued Controllable Non-Issued	20 10	15 8	30 18	18 9	15 11	19 6	16 10						19 10	52% 28%	
Citations	6	12	5	2	12	8	0						8	20%	
Total: Non-Violations	36	35	53	29	38	33	26						37	100%	
Emergency Vehicle Non- Issuable	0	2	0	2	0	5	3						3	2%	
Emergency Vehicle PD	0	0	0	0	0	0	0						0	0%	
Progress- PD Gate Down/ No Train	0	0	0	0	0	0	0						0	0% 0%	
No Violation Occurred	47	40	44	48	50	40	43						45	32%	
Rear Axle Activation Right Turn- No Violation	0	0	0	0	0	1 0	0						1 0	1% 0%	
Test Shot	81	79	89	89	92	115	91						91	65%	
Amber Time Low Vehicle Stopped- PD	0	0	0	0	0	0	0						0	0% 0%	
Total:	128	121	133	139	142	161	137						139	100%	
Uncontrollable Non-Is Administrative Dismissal	sued Violations	0	0	0	0	0	0						0	0%	
Car Obstructed	1	0	1	0	0	1	1						1	3%	
Conditions Beyond Control Driver Identity Unclear	0	0	0	0	0	0	0						0	0% 7%	
Driver Obstructed	1	0	1	0	0	0	0						1	3%	
Exposed Glare on Plate	0	0	0	0	0	0	0						0	0% 3%	
Glare on Windshield	1	1	1	2	2	5	1						2	6%	
Illegible Plate Interest of Justice- PD	0	0	0	0	0	0	0						0	0% 0%	
Image Quality- PD	1	0	0	0	0	0	0						1	3%	
Issuance Criteria Not Met- PD	2	5	11	8	0	0	0						7	23%	
No Warning Sign No Plate	0 8	0	0 6	05	0 4	0 9	0 6						06	0% 22%	
No Speed Captured	0	0	0	0	0	0	0						0	0%	
Obstruction In Photo- PD Out of State	0	0	03	1	0	0	0						1	3% 6%	
Plate Obstructed	4	0	2	0	4	0	1						3	10%	
Short Yellow- PD Third Party Damage	0	0	0	0	0	0	0						0	0% 0%	
TSB Epired	0	0	0	0	0	0	0						0	0%	
TSB No Hit Total:	0 <b>20</b>	0 15	5 <b>30</b>	1 18	1 15	2 <b>19</b>	4 16						3 29	9% 100%	
Controllable Non-Issu		0	0	0	0	0	0								
Cnduent Expire Clarity of Plate	0 0	0	0	0	0	0	0						0 0	0% 0%	
Clarity of Driver	0	0	0	0	0	0	1						1	8%	
Dark Interior Data Box Related- PD	0 0	1 0	1 0	0	0	0 0	0 0						1 0	8% 0%	
Data Box Data Error- PD	0	0	0	0	0	0	0						0	0%	
Data Entry Error Emergency Vehicle Issue	0	0	0	0	0	1 0	0 0						1 0	8% 0%	
Exposed	0	0	0	0	0	0	0						0	0%	
Equipment Malfunction Framing- PD	1 0	1 0	4 0	0	2 0	0	1 0						2 0	14% 0%	
Framing of Car	9	6	13	9	9	5	8						8	64%	
Framing of Driver Operator Error	0	0	0	0	0	0	0 0						0 0	0% 0%	
Framing of Plate	0	0	0	0	0	0	0						0	0%	
Reject Expired Speed Not Determined	0	0	0	0	0	0	0						0	0% 0%	
Total:	10	8	18	9	11	6	10						13 Vear to D	100%	
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0						rear to L	Date Average	
Average Issued Speed Average Issued Red Seconds	25 0 5	25 2.6	23	20	26 0.5	24 2 1	22 20.2							24 3.8	
Average Issued Red Seconds Citiation / Violation Issuance Rate	0.5 17%	2.6 34%	0.6 9%	0.3 7%	0.5 32%	2.1 24%	20.2 0%							3.8 21%	
Controllable Issuance Rate	38%	60%	22%	18%	52%	57%	0%							41%	

# Los Angeles County MTA Blue Line Approach Summary Report Location 2054: WB Venice @ Flower Left Turn Movements



100%						13				
80%	38	39	40	18	16		21			
60%					<mark></mark>					
40%					28	31				
20%	27	33	35	16	28		24			
0%								0	0	
Events	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oc
Non-Violations	517	462	488	452	378	348	371	-		
Violations Total:	65 <b>582</b>	74 536	75 <b>563</b>	35 <b>487</b>	44 <b>422</b>	46 <b>394</b>	46 <b>417</b>			
Violations	<b>J</b> 82	550	505	407	422	394	417			
Uncontrollable Non-Issued	27	33	35	16	28	31	24			
Controllable Non-Issued	0	2	0 40	1	0 16	2 13	1 21			
Citations Total:	38 <b>65</b>	39 <b>74</b>	40 <b>75</b>	18 <b>35</b>	44	<b>46</b>	<b>46</b>			
Non-Violations										
Emergency Vehicle Non- Issuable	0	4	1	0	0	4	0			
Emergency Vehicle PD	0	0	0	0	0	0	0			
Intersection Control in Progress- PD	0	0	0	0	0	0	0			
Gate Down/ No Train	0	0	0	0	0	0	0			
No Violation Occurred	405	349	358	330	260	228	255			
Rear Axle Activation Right Turn- No Violation	0	0	0	0	0	0	0			
Test Shot	112	109	129	122	117	116	116			
Amber Time Low	0	0	0	0	1	0	0			
Vehicle Stopped- PD Total:	0 <b>517</b>	0 <b>462</b>	0 <b>488</b>	0 <b>452</b>	0 378	0 <b>348</b>	0 371			
Uncontrollable Non-	1		400	452	378	348	371			
Administrative Dismissal	0	0	0	0	0	0	0			
Car Obstructed	1	2	0	0	0	0	1			
Conditions Beyond Control Driver Identity Unclear	0	0 2	0	0	0 2	0	0			
Driver Obstructed	4	3	1	4	0	3	0			
Exposed	0	0	0	0	0	0	0			
Glare on Plate Glare on Windshield	7 0	4	2	2	6 0	4	3			
Illegible Plate	0	0	0	0	0	0	0			
Interest of Justice- PD	0	0	0	0	0	0	0			
Image Quality- PD Issuance Criteria Not Met- PD	0	0	1 0	0	0	0	0			
No Warning Sign	0	0	0	0	0	0	0			
No Plate	9	17	17	6	14	19	10			
No Speed Captured	0	0	0	0	0	0	0			
Obstruction In Photo- PD Out of State	2	4	3	2	0	0	1			
Plate Obstructed	0	0	0	0	0	0	1			
Short Yellow- PD	0	0	0	0	0	0	0			
Third Party Damage TSB Epired	0	0	0	0	0	0	0			
TSB No Hit	0	0	5	1	6	4	8			
Total:		33	35	16	28	31	24			
Controllable Non-Iss Cnduent Expire	ued Violations 0	0	0	0	0	0	0			
Clarity of Plate	0	0	0	0	0	0	0			
Clarity of Driver	0	0	0	0	0	0	0			
Dark Interior Data Box Related- PD	0	0	0	1 0	0	0	0			
Data Box Related- PD	0	0	0	0	0	0	0			
Data Entry Error	0	1	0	0	0	2	1			
Emergency Vehicle Issue	0	0	0	0	0	0	0			
Exposed Equipment Malfunction	0	0	0	0	0	0	0			
Framing- PD	0	0	0	0	0	0	0			
Framing of Car	0	0	0	0	0	0	0			
Framing of Driver Operator Error	0	0	0	0	0	0	0			
Framing of Plate	0	0	0	0	0	0	0			
Reject Expired	0	0	0	0	0	0	0			
Speed Not Determined Total:	0	0	0	0	0	0	0			
- Total:	0	2	0	1	0	2	1			
Summary Metrics Daily Average Vehicle Passes	0	0	0	0	0	0	0			
Summary Metrics Daily Average Vehicle Passes Average Issued Speed	18	19	18	20	19	20	18			
Summary Metrics Daily Average Vehicle Passes										

### Los Angeles County MTA Blue Line Approach Summary Report Location 2056: SB to EB Flower @ Venice Left Turn Movements

Citations Controllable Non-Issued Uncontrollable Non-Issued 0 Year to Date Average Quantity % Oct-18 Nov-18 Dec-18 431 89% 55 11% 486 100% 50% 28 2 3% 47% 26 100% 56 3 1% 0 0% 0 0% 0% 0 312 72% 0% 0 0% 0 27% 117 0% 1 0% 0 433 100% 0% 0 4% 1 0 0% 2 4% 9% 3 0% 0 4 11% 3% 1 0% 0 0 0% 3% 1 0% 0 0% 0 13 37% 0 0% 2 7% 6% 2 1 3% 0 0% 0 0% 0 0% 5 14% 100% 35 0% 0 0 0% 0 0% 30% 1 0% 0 0% 0 1 40% 0% 0 0 0% 30% 1 0% 0 0 0% 0 0% 0 0% 0% 0 0% 0 0% 0 100% 3 Year to Date Average 0 19 35.1 47% 96%



### Los Angeles County MTA Blue Line Monthly Citation Yield - By Location July 2018

Direction	Location	Code	Movement	Days of Enforcement	Events	Violations	Citations	Yield*
WB	20th St @ Long Beach Blvd.	322	Straight	31	325	3	2	0.06
EB	Vernon Ave @ Long Beach	421	Straight	31	182	30	9	0.29
EB	Century Blvd. @ Grandee	821	Straight	31	174	45	9	0.29
WB	Century Blvd. @ Grandee	822	Straight	31	85	1	0	0.00
EB	103rd St @ Grandee	841	Straight	31	214	57	28	0.90
EB	119th St @ Willowbrook	981	Straight	31	304	161	53	1.71
WB	119th St @ Willowbrook	982	Straight	31	1476	86	23	0.74
EB	130th @ Willowbrook	1051	Straight	31	146	38	9	0.29
WB	130th @ Willowbrook	1052	Straight	31	220	22	7	0.23
EB	Stockwell @ Willowbrook	1081	Straight	31	109	27	8	0.26
WB	Stockwell @ Willowbrook	1082	Straight	31	162	19	9	0.29
EB	Washington to NB Los Angeles	2003	Left	31	666	250	141	4.55
WB	Washington to SB Los Angeles	2008	Left	31	305	14	6	0.19
EB	Washington to NB San Pedro	2017	Left	31	640	193	79	2.55
WB	Washington to SB San Pedro	2018	Left	31	412	113	33	1.06
EB	Washington to NB Broadway	2027	Left	31	460	19	4	0.13
SB	Flower to EB 18th Street	2036	Left	31	979	37	17	0.55
SB	Flower to EB 10 Fwy On Ramp	2046	Left	31	588	19	4	0.13
WB	Venice @ Flower	2054	Left	31	163	26	0	0.00
SB	Flower to EB Venice	2056	Left	31	417	46	21	0.68
Totals				31	8,027	1,206	462	14.90

\*Yield is the number of citations issued per day of enforcement.