



# CITY OF GARDEN GROVE

Bao Nguyen  
Mayor

Steven R. Jones  
Mayor Pro Tem

Christopher V. Phan  
Council Member

Phat Bui  
Council Member

Kris Beard  
Council Member

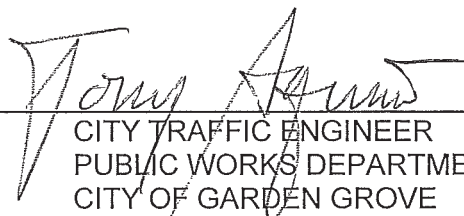
To Whom It May Concern:

I, Tony Aquino, P.E., City Traffic Engineer, Public Works Department, City of Garden Grove do hereby certify that all yellow change intervals for left turn movements and straight through movements for the City's eight (8) red light camera locations are set as follows in compliance with the Manual on Uniform Traffic Control Devices (MUTCD):

1. Valley View/Lampson (S/B) – 5.2 seconds
2. Brookhurst/Trask (E/B) – 5.2 seconds, (W/B) – 4.8 seconds
3. Brookhurst/Chapman (S/B, W/B) – 5.2 seconds
4. Trask/Magnolia (N/B) – 4.4 seconds, (W/B) – 4.8 seconds
5. Trask/Harbor (S/B) – 4.4 seconds, (E/B) – 4.8 seconds
6. Brookhurst/Westminster (N/B, S/B) – 4.4 seconds
7. Valley View/Chapman (N/B, S/B) – 5.2 seconds
8. Brookhurst/Orangewood (N/B) – 5.2 seconds

Executed under penalty of perjury on January 14, 2015, at the City of Garden Grove, California.

CERTIFIED  
TRUE COPY

  
CITY TRAFFIC ENGINEER  
PUBLIC WORKS DEPARTMENT  
CITY OF GARDEN GROVE

I declare under penalty of perjury that the foregoing instrument is a full, true and correct copy of the original on file in this office.

ATTEST:   
TERESA POMEROY, Deputy City Clerk  
City of Garden Grove

DATED: January 15, 2015

# City of Garden Grove Engineering and Traffic Survey Summary

Street: TRASK AVENUE  
 Intersects: NEWHOPE STREET  
HARBOR BOULEVARD

Field Observer: ANTONIO  
 Checked By: MARK MILLER  
 Date: 4/8/2014

<b>Factors</b>	<b>Direction: <u>East/West</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	11664 Trask Avenue		
85th Percentile	42		
10 mph Pace	35 - 44		
Percent in Pace	91.6%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 yrs )
Total Collisions	3		
Collision Rate (Acc/MVM)	0.64		
Expected Collision Rate	3.55		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	12757		
Length of Segment	2656		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Secondary Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments Double Yellow Center Line, 25 mph When Children Are Present, Parking			
<b><u>E. Adjacent Land Use</u></b>			
<b><u>Residential/Commercial</u></b>			
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. # 132			

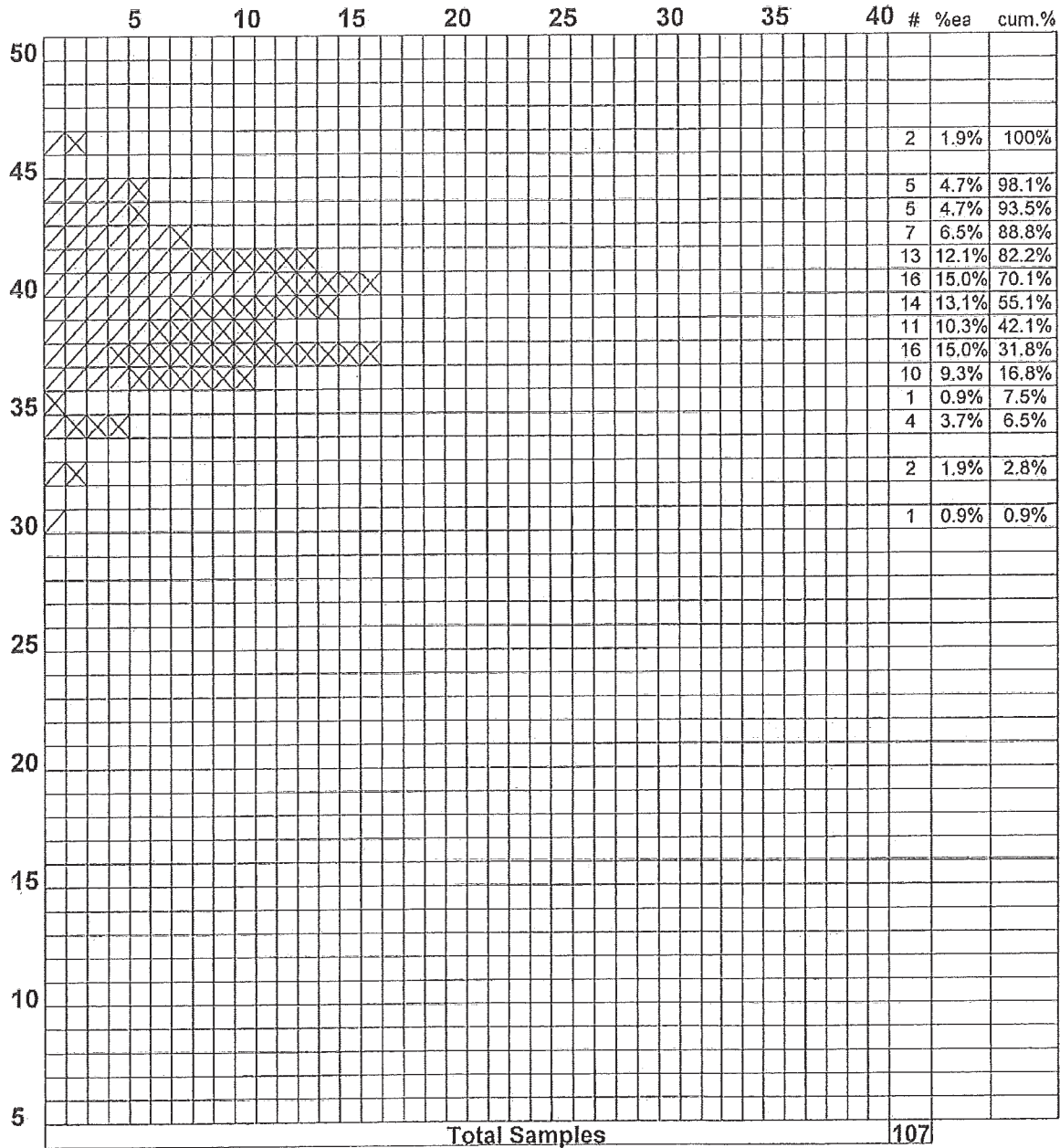
**City of Garden Grove  
Traffic Engineering Department**

Street Name: TRASK AVENUE

Limits: NEWHOPE STREET to HARBOR BOULEVARD

**Radar Survey Sheet**

X=West /=East



85th Percentile Speed: 42  
 50th Percentile Speed: 39  
 15th Percentile Speed: 36  
 10 MPH Pace: 35-44  
 Number in Pace: 98  
 Percent in Pace: 91.6%

Date of Survey: 4/8/2014      Start Time: 11:30  
 Weather: Sunny      End Time: 11:44  
 Road Condition: Good      Posted Speed: 40  
 Street Class.: Secondary Arterial      Observer: ANTONIO  
 Conditions not Apparent:

**City of Garden Grove  
Engineering and Traffic Survey  
Summary**

Street: TRASK AVENUE  
 Intersects: MAGNOLIA STREET  
GALWAY STREET

Field Observer: ANTONIO  
 Checked By: MARK MILLER  
 Date: 4/8/2014

<b>Factors</b>	<b>Direction: <u>East/West</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	Nissan Dealer		
85th Percentile	43		
10 mph Pace	33 - 42		
Percent in Pace	68.3%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 yrs )
Total Collisions	8		
Collision Rate (Acc/MVM)	1.347		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	15367		
Length of Segment	2795		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Secondary Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	Parking, 2 Left Turn Pockets		
<b><u>E. Adjacent Land Use</u></b>			
	Residential/Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. # 127			

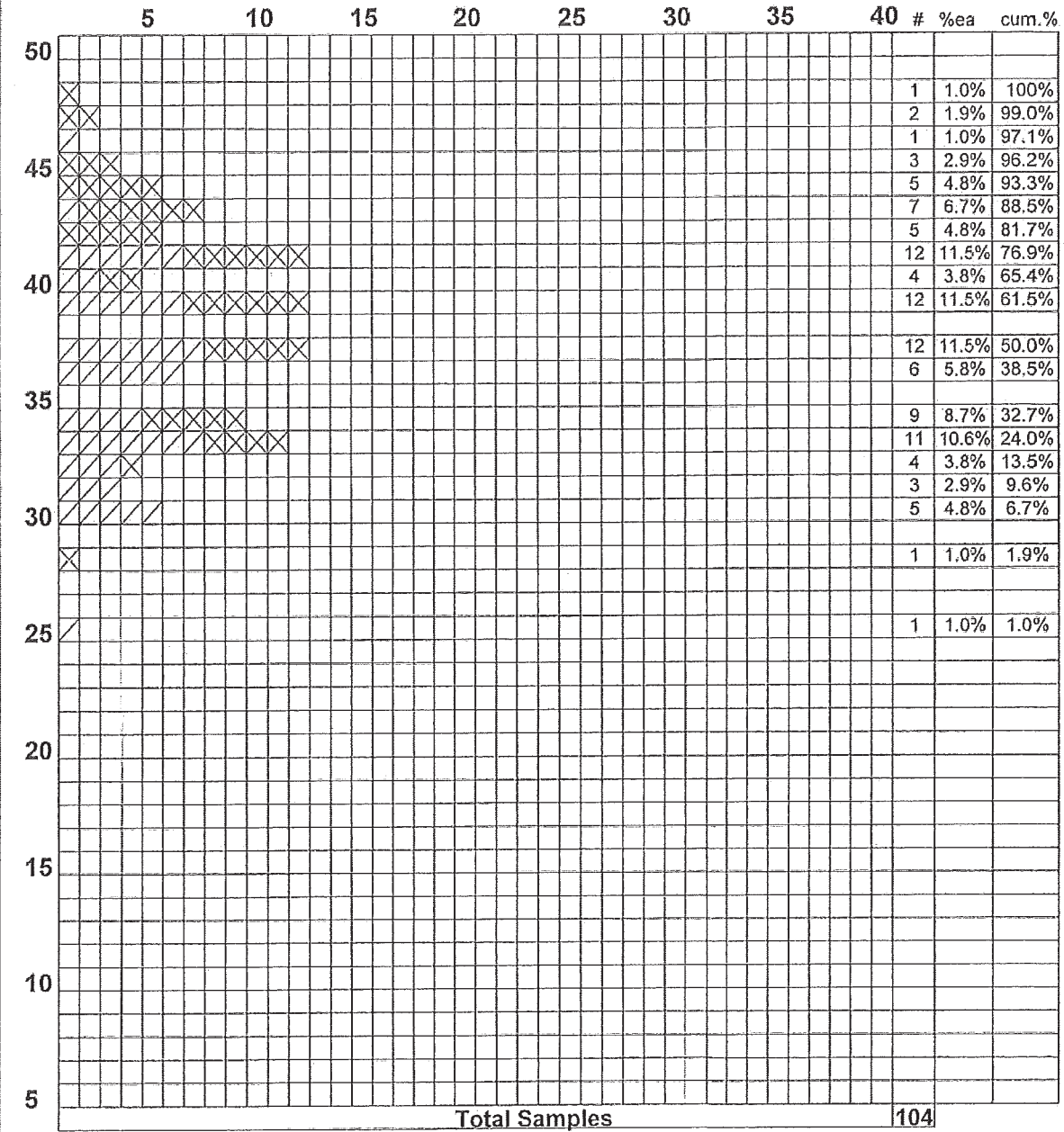
**City of Garden Grove  
Traffic Engineering Department**

Street Name: TRASK AVENUE

Limits: MAGNOLIA STREET to GALWAY STREET

**Radar Survey Sheet**

X=West / =East



85th Percentile Speed:	<u>43</u>	Date of Survey:	<u>4/8/2014</u>	Start Time:	<u>9:56</u>
50th Percentile Speed:	<u>37</u>	Weather:	<u>Sunny</u>	End Time:	<u>10:12</u>
15th Percentile Speed:	<u>33</u>	Road Condition:	<u>Good</u>	Posted Speed:	<u>40</u>
10 MPH Pace:	<u>33- 42</u>	Street Class.:	<u>Secondary Arterial</u>	Observer:	<u>ANTONIO</u>
Number in Pace:	<u>71</u>	Conditions not Apparent:			
Percent in Pace:	<u>68.3%</u>				

# City of Garden Grove Engineering and Traffic Survey Summary

Street: CHAPMAN AVENUE  
 Intersects: BROOKHURST STREET  
NUTWOOD STREET

Field Observer: ANTONIO ELMORE  
 Checked By: MARK MILLER  
 Date: 4/1/2014

<b>Factors</b>	<b>Direction: <u>east/west</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	10200 Chapman Avenue		
85th Percentile	48		
10 mph Pace	34 - 43		
Percent in Pace	67.9%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 years )
Total Collisions	2		
Collision Rate (Acc/MVM)	0.195		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	27986		
Length of Segment	2656		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Principal Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments 2 Way Left Turn Pocket, Multiple Driveways, Bike Lane, Low Accident Rate, Continuity of Speed			
<b><u>E. Adjacent Land Use</u></b>			
Residential			
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #78			





# City of Garden Grove Engineering and Traffic Survey Summary

Street: TRASK AVENUE  
 Intersects: GALWAY STREET  
BROOKHURST STREET

Field Observer: ANTONIO  
 Checked By: MARK MILLER  
 Date: 4/8/2014

<b>Factors</b>	<b>Direction: <u>East/West</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	Toyota Place		
85th Percentile	46		
10 mph Pace	37 - 46		
Percent in Pace	76.0%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 yrs )
Total Collisions	5		
Collision Rate (Acc/MVM)	1.313		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	10971		
Length of Segment	2510		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Secondary Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	Multiple Driveways, 2 Way Left Turn Pocket, School X-ing, 22W-FWY Entrance		
<b><u>E. Adjacent Land Use</u></b>			
	Residential/Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		



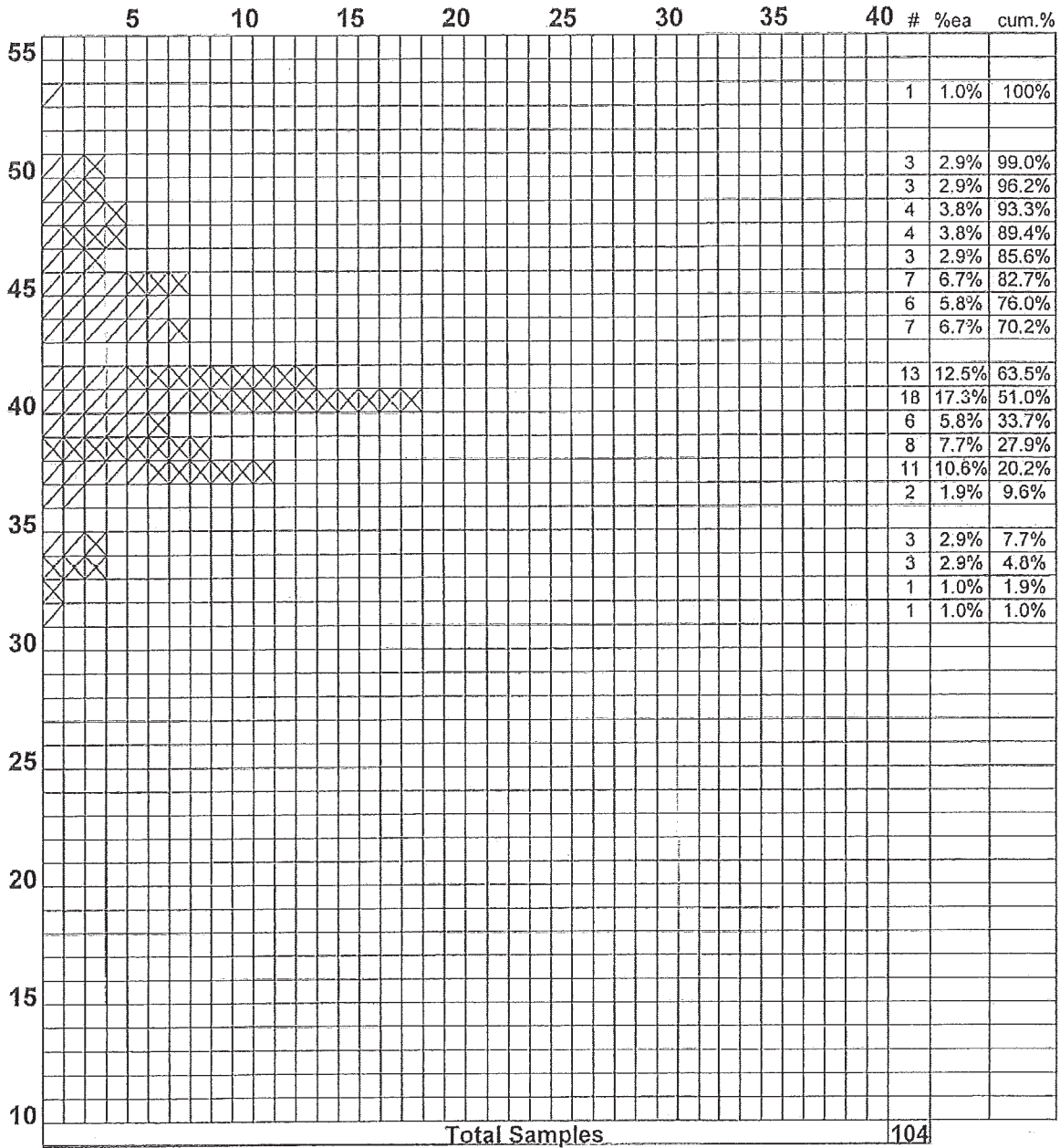
**City of Garden Grove  
Traffic Engineering Department**

Street Name: TRASK AVENUE

Limits: GALWAY STREET to BROOKHURST STREET

**Radars Survey Sheet**

X=West / =East



85th Percentile Speed: 46  
 50th Percentile Speed: 40  
 15th Percentile Speed: 37  
 10 MPH Pace: 37-46  
 Number in Pace: 79  
 Percent in Pace: 76.0%

Date of Survey: 4/8/2014      Start Time: 10:15  
 Weather: Sunny      End Time: 10:30  
 Road Condition: Good      Posted Speed: 40  
 Street Class.: Secondary Arterial      Observer: ANTONIO  
 Conditions not Apparent:

# City of Garden Grove Engineering and Traffic Survey Summary

Street: TRASK AVENUE  
 Intersections: BROOKHURST STREET  
BENTON STREET

Field Observer: ANTONIO  
 Checked By: MARK MILLER  
 Date: 4/8/2014

<b>Factors</b>	<b>Direction: <u>East/West</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	"Chevrolet Dealer"		
85th Percentile	44		
10 mph Pace	35 - 44		
Percent in Pace	80.0%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 yrs )
Total Collisions	1		
Collision Rate (Acc/MVM)	0.184		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	14810		
Length of Segment	2656		
Lane Configuration	2 Lanes Each Direction		
Street Classification	Secondary Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	No Parking, Multiple Driveways, 2 Way Left Turn Pocket, Bike Lane		
<b><u>E. Adjacent Land Use</u></b>			
	Multi Family Residential		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		

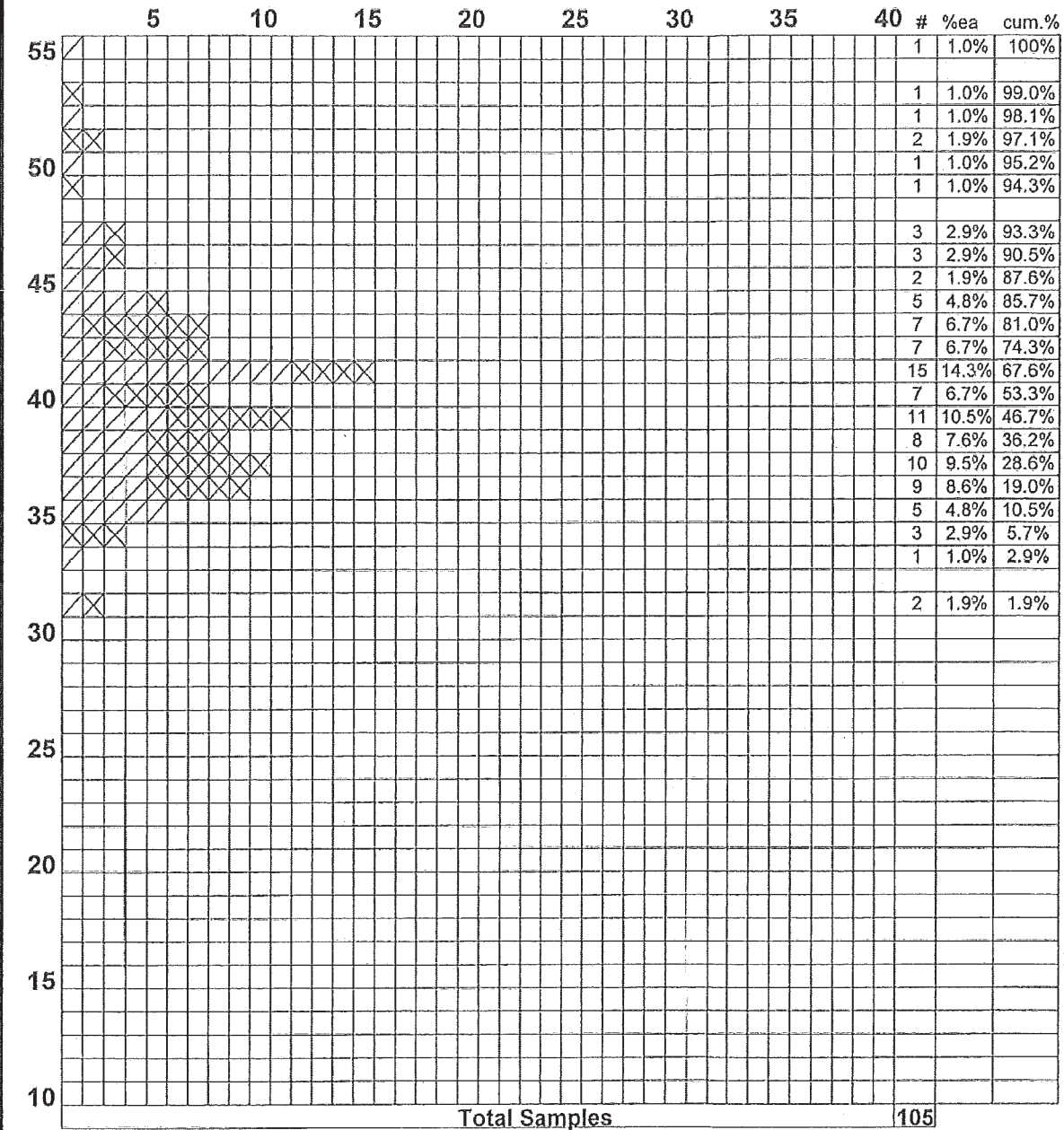
# City of Garden Grove Traffic Engineering Department

Street Name: TRASK AVENUE

Limits: BROOKHURST STREET to BENTON STREET

## Radar Survey Sheet

X=West /=East



85th Percentile Speed: <u>44</u>	Date of Survey: <u>4/8/2014</u>	Start Time: <u>10:33</u>
50th Percentile Speed: <u>40</u>	Weather: <u>Sunny</u>	End Time: <u>10:47</u>
15th Percentile Speed: <u>36</u>	Road Condition: <u>Good</u>	Posted Speed: <u>40</u>
10 MPH Pace: <u>35-44</u>	Street Class.: <u>Secondary Arterial</u>	Observer: <u>ANTONIO</u>
Number in Pace: <u>84</u>	Conditions not Apparent:	
Percent in Pace: <u>80.0%</u>		

# City of Garden Grove Engineering and Traffic Survey Summary

Street: VALLEY VIEW STREET  
 Intersections: LAMPSON AVENUE  
CHAPMAN AVENUE

Field Observer: ANTONIO  
 Checked By: MARK MILLER  
 Date: 6/5/2014

<b>Factors</b>	<b>Direction: <u>North/South</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	N/A		
85th Percentile	46		
10 mph Pace	38 - 47		
Percent in Pace	80.5%		
Posted Speed Limit	45		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 yrs )
Total Collisions	7		
Collision Rate (Acc/MVM)	0.627		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	47027		
Length of Segment	2443		
Lane Configuration	3 Lanes Each Direction with Raised Median		
Street Classification	Secondary Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	Limited Access, Low Accident Rate		
<b><u>E. Adjacent Land Use</u></b>			
	Residential/Commercial		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		
Loc. #67			

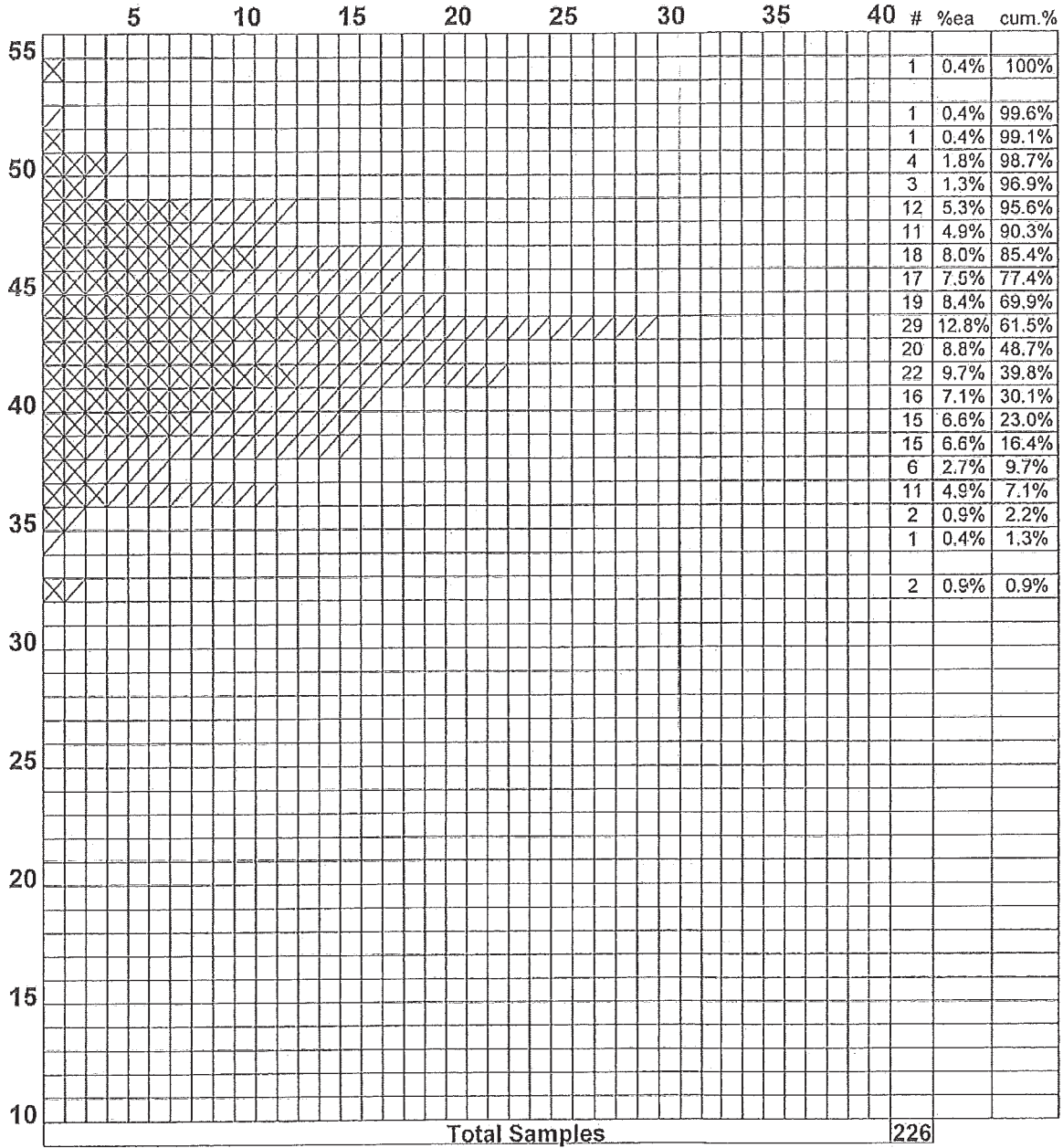
**City of Garden Grove**  
**Traffic Engineering Department**

Street Name: VALLEY VIEW STREET

Limits: LAMPSON AVENUE to CHAPMAN AVENUE

**Radar Survey Sheet**

X=North /=South



85th Percentile Speed: 46  
 50th Percentile Speed: 43  
 15th Percentile Speed: 38  
 10 MPH Pace: 38-47  
 Number in Pace: 182  
 Percent in Pace: 80.5%

Date of Survey: 6/5/2014      Start Time: 11:35  
 Weather: Sunny      End Time: 11:50  
 Road Condition: New      Posted Speed: 45  
 Street Class.: Secondary Arterial      Observer: ANTONIO  
 Conditions not Apparent:



**City of Garden Grove  
Engineering and Traffic Survey  
Summary**

Street: VALLEY VIEW STREET  
 Intersects: CHAPMAN AVENUE  
SANTA CATALINA AVENUE

Field Observer: ANTONIO  
 Checked By: MARK MILLER  
 Date: 6/5/2014

<b>Factors</b>	<b>Direction: <u>North/South</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	LA Fitness Sports Club		
85th Percentile	47		
10 mph Pace	37 - 46		
Percent in Pace	74.6%		
Posted Speed Limit	45		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 yrs )
Total Collisions	3		
Collision Rate (Acc/MVM)	0.533		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	49029		
Length of Segment	1189		
Lane Configuration	3 Lanes Each Direction with Raised Median		
Street Classification	Principal Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	Limited Access, Low Accident Rate, 40 mph in Cypress		
<b><u>E. Adjacent Land Use</u></b>			
	Residential/Commercial		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		



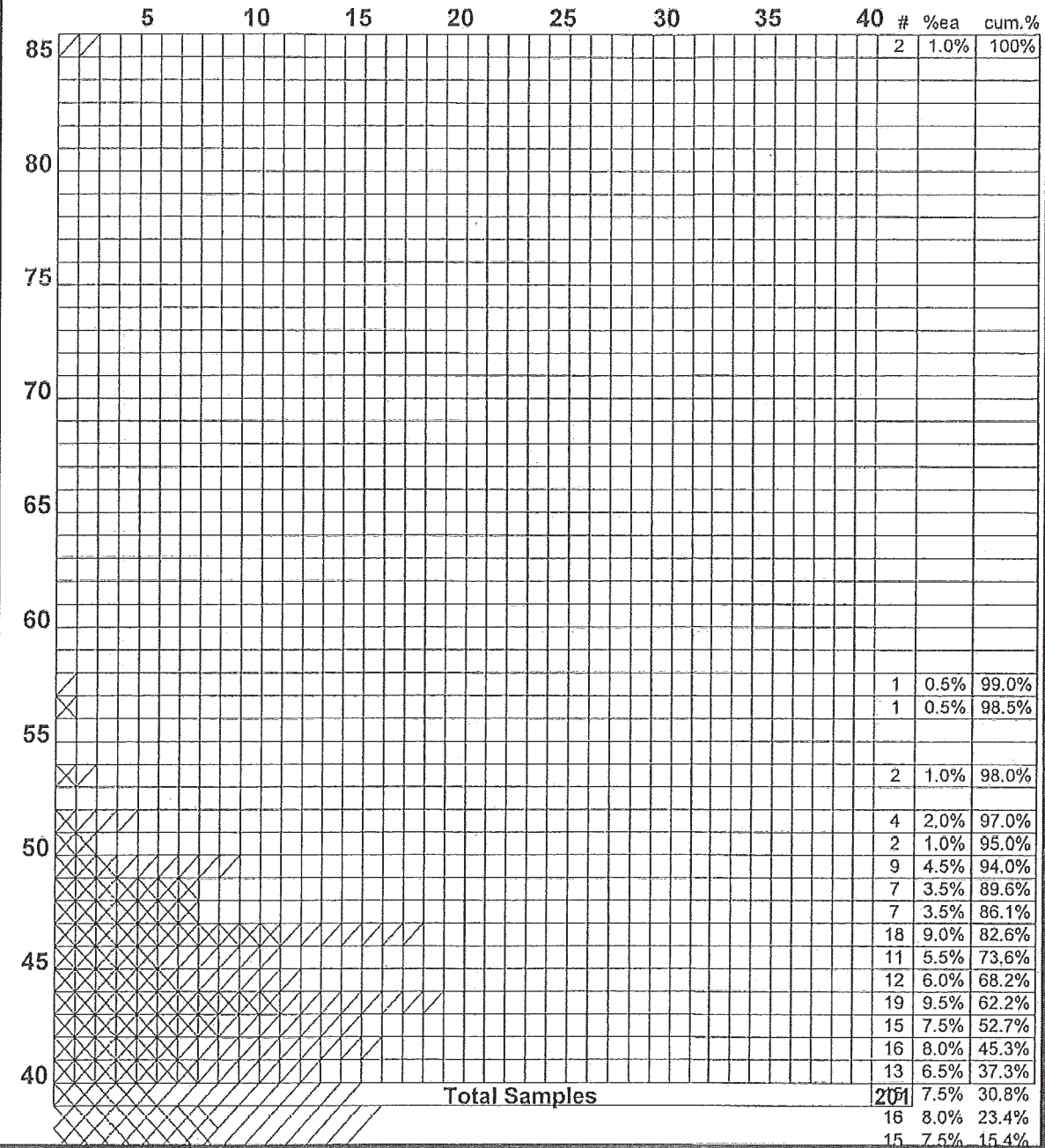
**City of Garden Grove  
Traffic Engineering Department**

Street Name: VALLEY VIEW STREET

Limits: CHAPMAN AVENUE to SANTA CATALINA AVENUE

**Radars Survey Sheet**

X=North /=South



85th Percentile Speed: 47  
 50th Percentile Speed: 42  
 15th Percentile Speed: 37  
 10 MPH Pace: 37-46  
 Number in Pace: 150  
 Percent in Pace: 74.6%

Date of Survey: 6/5/2014 Start Time: 11:53  
 Weather: Sunny End Time: 12:16  
 Road Condition: New Posted Speed: 45  
 Street Class.: Principal Arterial Observer: ANTONIO  
 Conditions not Apparent:

# City of Garden Grove Engineering and Traffic Survey Summary

Street: HARBOR BOULEVARD  
 Limits: TRASK AVENUE  
GARDEN GROVE BOULEVARD

Field Observer: EDELL  
 Checked By: MARK MILLER  
 Date: 4/3/2014

<b>Factors</b>	<b>Direction: <u>north/south</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	12345 Harbor Boulevard		
85th Percentile	40		
10 mph Pace	26 - 35		
Percent in Pace	58.3%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 years )
Total Collisions	27		
Collision Rate (Acc/MVM)	1.733		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	42193		
Length of Segment	2670		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	No Parking		
<b><u>E. Adjacent Land Use</u></b>			
	Retail/Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #23			

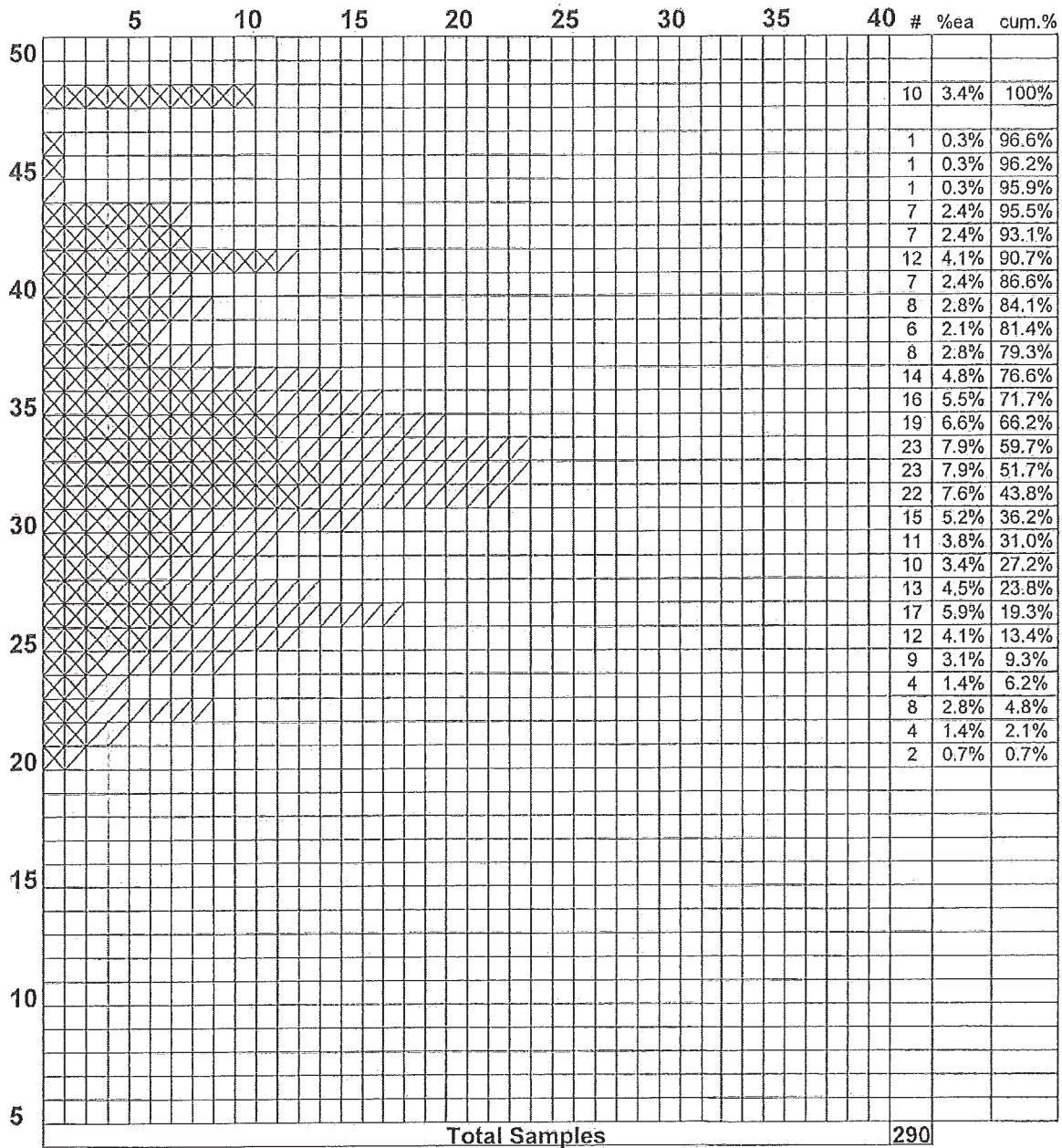
**City of Garden Grove  
Traffic Engineering Department**

Street Name: HARBOR BOULEVARD

Limits: TRASK AVENUE to GARDEN GROVE BOULEVARD

**Radar Survey Sheet**

X=North /=South



85th Percentile Speed: 40  
 50th Percentile Speed: 32  
 15th Percentile Speed: 26  
 10 MPH Pace: 26-35  
 Number in Pace: 169  
 Percent in Pace: 58.3%

Date of Survey: 4/3/2014      Start Time: 14:30  
 Weather: clear      End Time: 15:30  
 Road Condition: good      Posted Speed: 40  
 Street Class.: Principal Arterial      Observer: EDELL  
 Conditions not Apparent:

# City of Garden Grove Engineering and Traffic Survey Summary

Street: MAGNOLIA STREET  
 imits: WESTMINSTER BOULEVARD  
TRASK AVENUE

Field Observer: MIKE ALMIR  
 Checked By: MARK MILLER  
 Date: 4/9/2014

<b>Factors</b>	<b>Direction: <u>north/south</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	13915 Magnolia Street		
85th Percentile	39		
10 mph Pace	31 - 40		
Percent in Pace	61.0%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 years )
Total Collisions	7		
Collision Rate (Acc/MVM)	0.449		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	42612		
Length of Segment	2645		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	No Parking, Multiple Driveways, Low Accident Rate, Continuity of Speed, 45 mph in Westminster		
<b><u>E. Adjacent Land Use</u></b>			
	Residential/Retail		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #34			

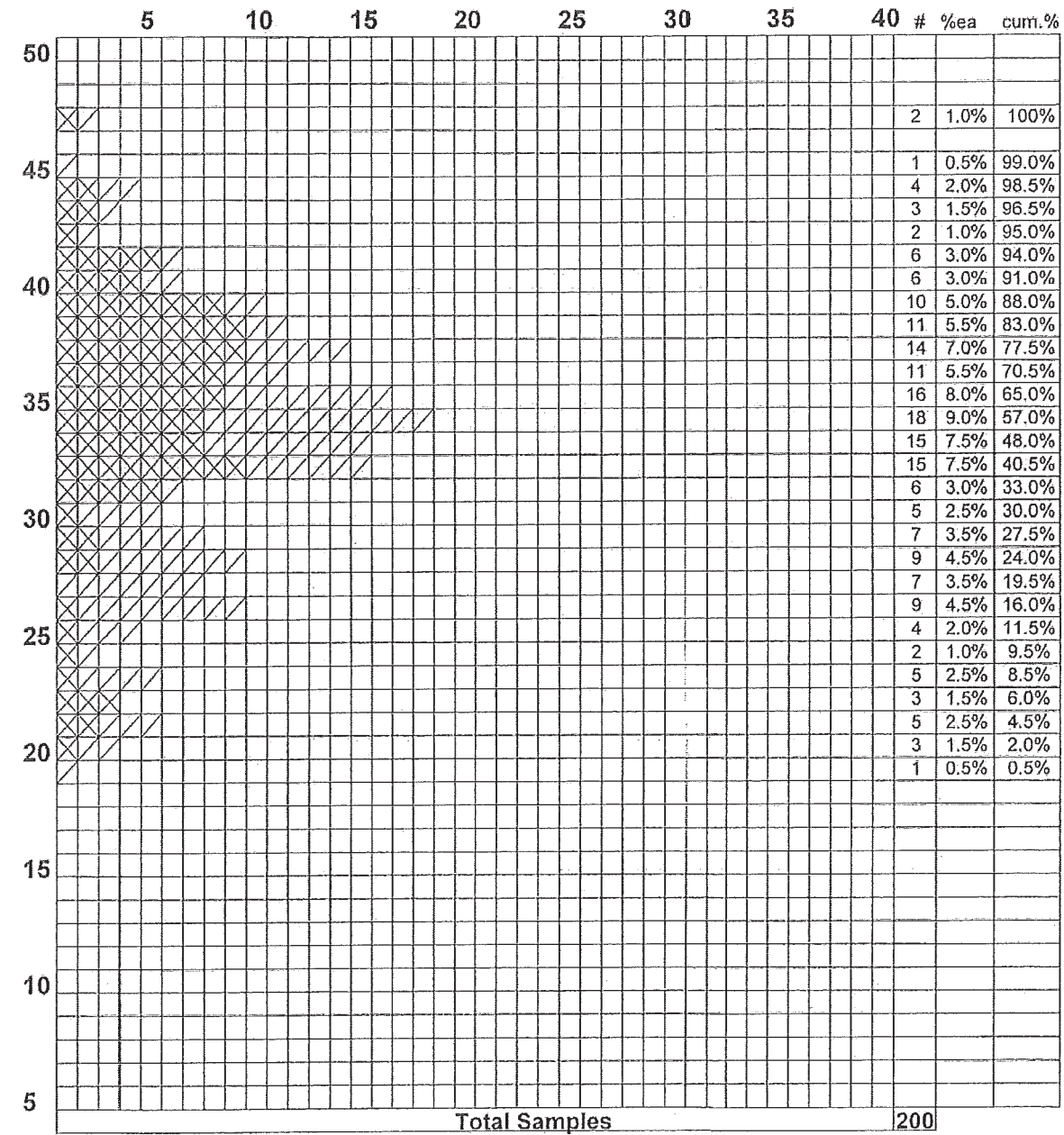
**City of Garden Grove  
Traffic Engineering Department**

Street Name: MAGNOLIA STREET

Limits: WESTMINSTER BOULEVARD to TRASK AVENUE

**Radar Survey Sheet**

X=North /=South



85th Percentile Speed: 39  
 50th Percentile Speed: 34  
 15th Percentile Speed: 26  
 10 MPH Pace: 31-40  
 Number in Pace: 122  
 Percent in Pace: 61.0%

Date of Survey: 4/9/2014

Weather: cloudy

Road Condition: good

Street Class.: Principal Arterial

Conditions not Apparent:

Start Time: 9:00

End Time: 10:00

Posted Speed: 40

Observer: MIKE ALMIR



**City of Garden Grove  
Engineering and Traffic Survey  
Summary**

Street: BROOKHURST STREET  
imits: CHAPMAN AVENUE  
ORANGEWOOD AVENUE

Field Observer: MIKE ALMIR  
Checked By: MARK MILLER  
Date: 4/15/2014

<b>Factors</b>	<b>Direction: <u>north/south</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	11771 Brookhurst Street		
85th Percentile	48		
10 mph Pace	38 - 47		
Percent in Pace	60.0%		
Posted Speed Limit	45		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 years )
Total Collisions	4		
Collision Rate (Acc/MVM)	0.34		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	31957		
Length of Segment	2865		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	Low Accident Rate, Bike Lane, Limited Parking		
<b><u>E. Adjacent Land Use</u></b>			
	Residential		
Posted Speed Limit	45		
Speed Limit Change?	No		
Revised Speed Limit	45		
Loc. #6			



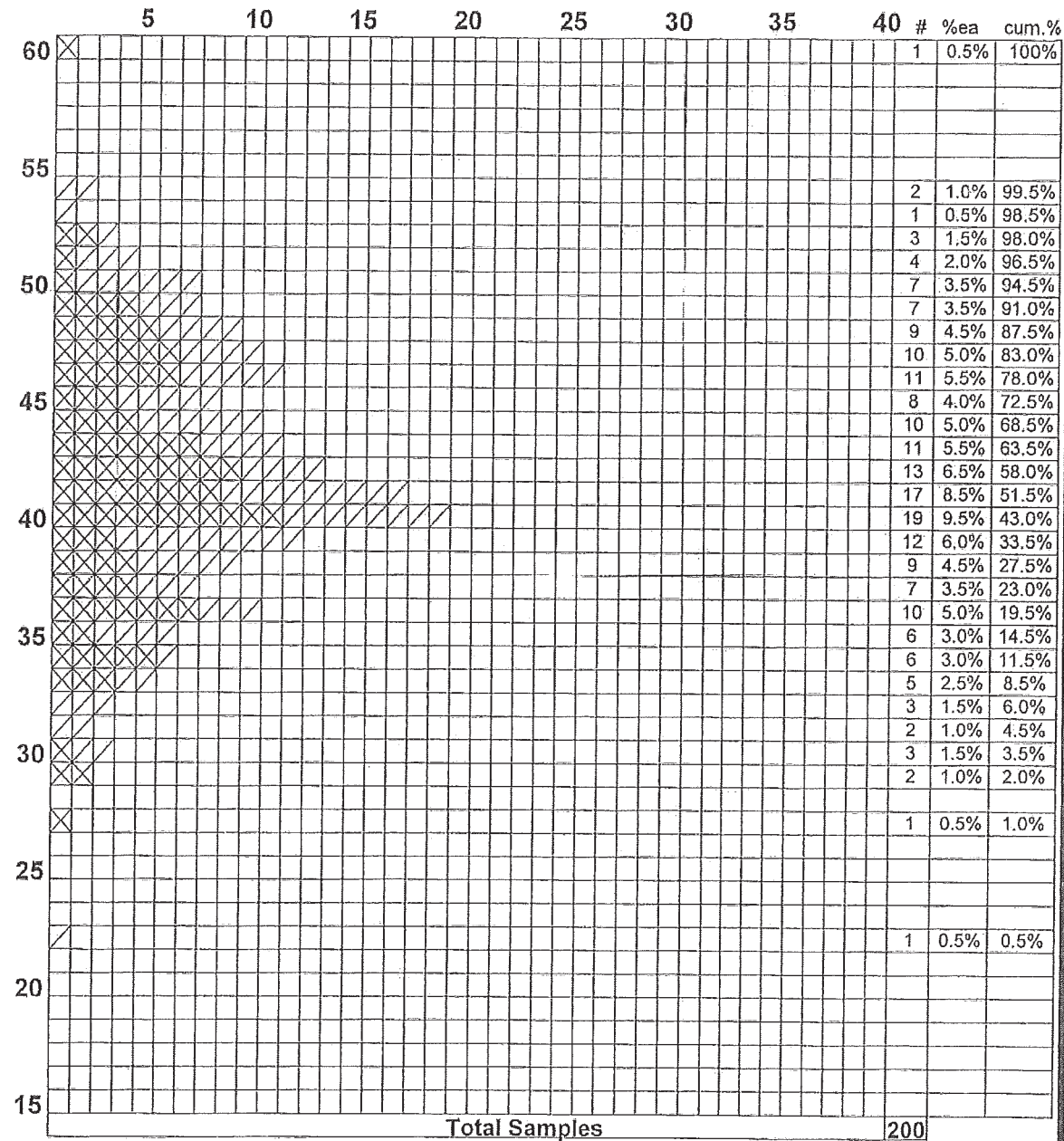
**City of Garden Grove  
Traffic Engineering Department**

Street Name: BROOKHURST STREET

Limits: CHAPMAN AVENUE to ORANGEWOOD AVENUE

**Radars Survey Sheet**

X=North /=South



85th Percentile Speed: 48  
 50th Percentile Speed: 41  
 15th Percentile Speed: 36  
 10 MPH Pace: 38-47  
 Number in Pace: 120  
 Percent in Pace: 60.0%

Date of Survey: 4/15/2014      Start Time: 9:30  
 Weather: clear      End Time: 10:00  
 Road Condition: good      Posted Speed: 45  
 Street Class.: Principal Arterial      Observer: MIKE ALMIR  
 Conditions not Apparent:

City of Garden Grove  
Engineering and Traffic Survey  
Summary

Street: BROOKHURST STREET  
Limits: HAZARD AVENUE  
WESTMINSTER AVENUE

Field Observer: MIKE ALMIR  
Checked By: MARK MILLER  
Date: 4/10/2014

Factors	Direction: <u>North/South</u>
<b><u>A. Prevailing Speed Data</u></b>	
Location of Survey	14257 Brookhurst Street
85th Percentile	39
10 mph Pace	27 - 36
Percent in Pace	65.5%
Posted Speed Limit	40
<b><u>B. Collision History</u></b>	
Date Range Covered	1/1/2010 To 12/31/2011 ( 2 years )
Total Collisions	8
Collision Rate (Acc/MVM)	0.468
Expected Collision Rate	2.3
<b><u>C. Traffic Factors</u></b>	
Average Daily Traffic	46436
Length of Segment	2662
Lane Configuration	3 Lanes Each Direction
Street Classification	Principal Arterial
<b><u>D. Conditions Not Readily Apparent</u></b>	
Conditions	
Roadway Geometrics	
Comments	No Parking, 45 mph in Westminster
<b><u>E. Adjacent Land Use</u></b>	
	Retail/Commercial
Posted Speed Limit	40
Speed Limit Change?	No
Revised Speed Limit	40
Loc. #1	

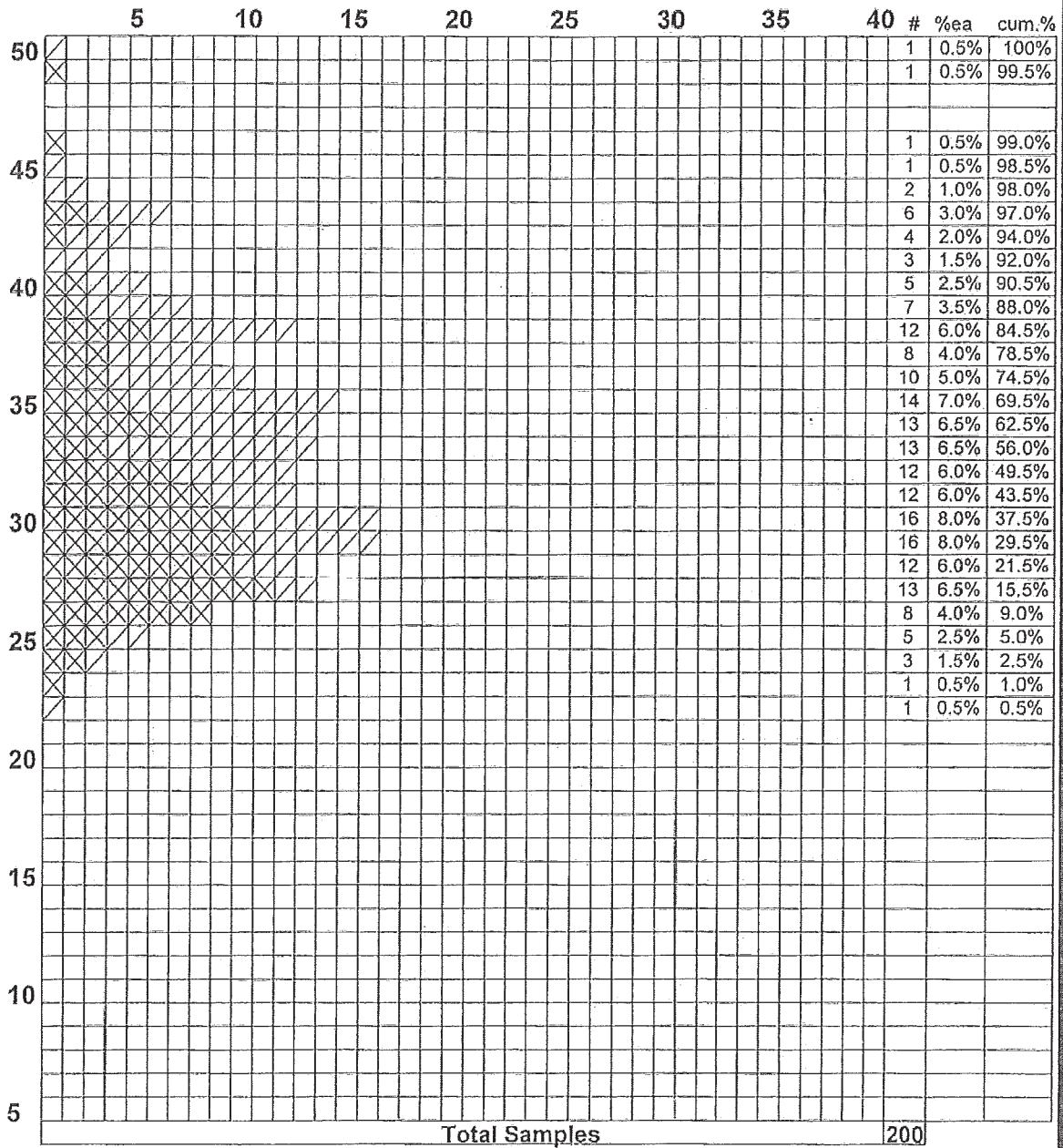
**City of Garden Grove  
Traffic Engineering Department**

Street Name: BROOKHURST STREET

Limits: HAZARD AVENUE to WESTMINSTER AVENUE

**Radar Survey Sheet**

X=North /=South



85th Percentile Speed: 39  
 50th Percentile Speed: 33  
 15th Percentile Speed: 27  
 10 MPH Pace: 27-36  
 Number in Pace: 131  
 Percent in Pace: 65.5%

Date of Survey: 4/10/2014      Start Time: 14:00  
 Weather: Clear      End Time: 14:30  
 Road Condition: Fair      Posted Speed: 40  
 Street Class.: Principal Arterial      Observer: MIKE ALMIR  
 Conditions not Apparent:

**City of Garden Grove  
Engineering and Traffic Survey  
Summary**

Street: BROOKHURST STREET  
Limits: WESTMINSTER AVENUE  
TRASK AVENUE

Field Observer: MIKE ALMIR  
Checked By: MARK MILLER  
Date: 4/10/2014

<b>Factors</b>	<b>Direction: <u>north/south</u></b>		
<b><u>A. Prevailing Speed Data</u></b>			
Location of Survey	13831 Brookhurst Street		
85th Percentile	36		
10 mph Pace	24 - 33		
Percent in Pace	66.0%		
Posted Speed Limit	40		
<b><u>B. Collision History</u></b>			
Date Range Covered	1/1/2010	To 12/31/2011	( 2 years )
Total Collisions	12		
Collision Rate (Acc/MVM)	0.57		
Expected Collision Rate	2.3		
<b><u>C. Traffic Factors</u></b>			
Average Daily Traffic	57768		
Length of Segment	2637		
Lane Configuration	3 Lanes Each Direction		
Street Classification	Principal Arterial		
<b><u>D. Conditions Not Readily Apparent</u></b>			
Conditions			
Roadway Geometrics			
Comments	No Parking		
<b><u>E. Adjacent Land Use</u></b>			
	Retail/Commercial		
Posted Speed Limit	40		
Speed Limit Change?	No		
Revised Speed Limit	40		
Loc. #2			



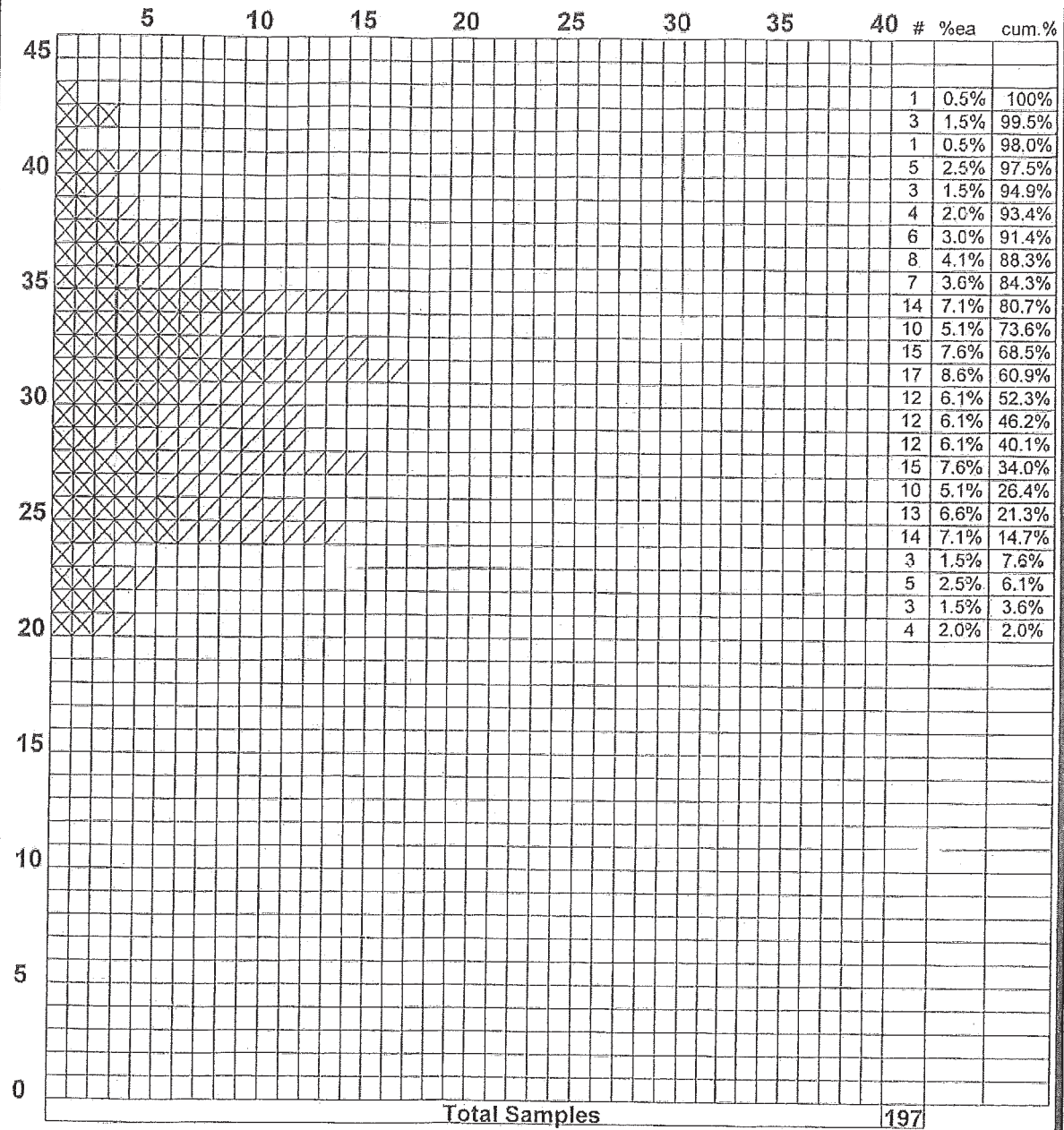
**City of Garden Grove  
Traffic Engineering Department**

Street Name: BROOKHURST STREET

Limits: WESTMINSTER AVENUE to TRASK AVENUE

**Radar Survey Sheet**

X=North /=South



85th Percentile Speed: 36  
 50th Percentile Speed: 30  
 15th Percentile Speed: 25  
 10 MPH Pace: 24-33  
 Number in Pace: 130  
 Percent in Pace: 66.0%

Date of Survey: 4/10/2014      Start Time: 14:30  
 Weather: clear      End Time: 15:00  
 Road Condition: good      Posted Speed: 40  
 Street Class.: Principal Arterial      Observer: MIKE ALMIR  
 Conditions not Apparent: