



Placentia Streetscape and Transportation Advisory Commission Agenda

Regular Meeting

March 18, 2024

6:00 p.m.

City Hall Front Community Room
401 E. Chapman Avenue, Placentia, CA 92870

Meredith Castillo
Commissioner

Dr. Arinder Chadha
Commissioner

Thomas Ingalls
Commissioner

Nick Polichetti
Commissioner

Matthew Roche
Commissioner

Procedures for Addressing the Commission

Any person who wishes to speak regarding an item on the agenda or on a subject within the Streetscape and Transportation Advisory Commission's jurisdiction during the "Oral Communications" portion of the agenda should fill out a "Speaker Request Form" and give it to the Commission Secretary BEFORE that portion of the agenda is called. Testimony for Public Hearings will only be taken at the time of the hearing. Any person who wishes to speak on a Public Hearing item should fill out a "Speaker Request Form" and give it to the Commission Secretary BEFORE the item is called.

The Commission encourages free expression of all points of view. To allow all persons the opportunity to speak, please keep your remarks brief. If others have already expressed your position, you may simply indicate that you agree with a previous speaker. If appropriate, a spokesperson may present the views of an entire group. To encourage all views, the Commission discourages clapping, booing or shouts of approval or disagreement from the audience.

**PLEASE SILENCE CELL PHONES AND OTHER ELECTRONIC
EQUIPMENT WHILE THE COMMISSION IS IN SESSION.**

Special Accommodations

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Clerk's Office at (714) 993-8231. Notification 48 hours prior to the meeting will generally enable City staff to make reasonable arrangements to ensure accessibility. (28 CFR 35.102.35.104 ADA Title II)

City of Placentia
401 E Chapman Avenue
Placentia, CA 92870

Phone: (714) 993-8148

Fax: (714) 528-4640

Website: www.placentia.org

Copies of all agenda materials are available for public review in the Office of the City Clerk, City Public Works Counter, Placentia Library Reference Desk and the internet at www.placentia.org under the Streetscape & Transportation Advisory Commission page. Persons who have questions concerning any agenda item may call the Public Works Department at (714) 993-8148 to make inquiry concerning the nature of the item described on the agenda.

In compliance California Government Code Section 54957.5, any writings or documents provided to a majority of the Streetscape and Transportation Advisory Commission regarding any item on this agenda that are not exempt from disclosure under the Public Records Act will be made available for public inspection at the City Clerk's Office at City Hall, 401 East Chapman Avenue, Placentia, during normal business hours.

Study Sessions are open to the public and held in the City Council Chambers or City Front Community Meeting Room.

REGULAR MEETING
6:00 p.m. – City Hall Front Community Room

CALL TO ORDER:

ROLL CALL: Commissioner Rocke
Commissioner Polichetti
Commissioner Chadha
Commissioner Castillo
Commissioner Ingalls

PLEDGE OF ALLEGIANCE:

ORAL COMMUNICATIONS:

At this time the public may address the Streetscape and Transportation Advisory Commission concerning any agenda item, which is not a public hearing item, or on matters within the jurisdiction of the Streetscape and Transportation Advisory Commission. There is a five (5) minute time limit for each individual addressing the Streetscape and Transportation Advisory Commission.

CONSENT CALENDAR: None

PUBLIC HEARING:

1. Appeal of Denied Tree Removal Request – 2107 Carleton Circle

Recommended Actions: It is recommended that the Streetscape and Transportation Advisory Commission:

1. Open the Public Hearing concerning the Appeal for Denied Tree Removal Request at 2107 Carleton Circle; and
2. Receive the staff report and consider all public testimony; and
3. Close the Public Hearing and Deny the Appeal for Denied Tree Removal Request at 2107 Carleton Circle.

2. Appeal of Denied Tree Removal Request – 626 Sherwood Avenue

Recommended Actions: It is recommended that the Streetscape and Transportation Advisory Commission:

1. Open the Public Hearing concerning the Appeal for Denied Tree Removal Request at 626 Sherwood Avenue; and

2. Receive the staff report and consider all public testimony; and
3. Close the Public Hearing and Deny the Appeal for Denied Tree Removal Request at 626 Sherwood Avenue.

3. Appeal of Denied Tree Removal Request – 1913 Twain Place

Recommended Actions: It is recommended that the Streetscape and Transportation Advisory Commission:

1. Open the Public Hearing concerning the Appeal for Denied Tree Removal Request at 1913 Twain Place; and
2. Receive the staff report and consider all public testimony; and
3. Close the Public Hearing and Deny the Appeal for Denied Tree Removal Request at 1913 Twain Place.

REGULAR AGENDA: None

NEW BUSINESS:

1. 2023 Citywide Tree Planting Updates

Recommended Actions: It is recommended that the Streetscape and Transportation Advisory Commission:

1. Receive oral presentation.

2. 2023 Engineering and Traffic Survey

Recommended Actions: It is recommended that the Streetscape and Transportation Advisory Commission:

1. Receive oral presentation.

OLD BUSINESS: None

INFORMATION/COMMUNICATIONS :

1. POLICE DEPARTMENT TRAFFIC SUMMARY
Statistical update on accident and enforcement information provided by the Placentia Police Department.

STREETSCAPE AND TRANSPORTATION ADVISORY COMMISSION REQUESTS

Commission members may make requests or ask questions of Staff. If a Commission member would like to have formal action taken on a requested matter, it will be placed on a future Commission Agenda.

ADJOURNMENT

The Streetscape & Transportation Advisory Commission CLOSE to the next regular meeting on Monday, May 20, 2024, at 6:00 p.m. in the City Front Community Meeting Room located at 401 East Chapman Avenue, Placentia CA, 92870.

CERTIFICATION OF POSTING

I, Kyra Tao, Transportation Manager/Secretary to the Streetscape and Transportation Advisory Commission of the City of Placentia, hereby certify that the Agenda for the March 18, 2024, Regular Meeting of the Streetscape and Transportation Advisory Commission of the City of Placentia was posted on March 14, 2024.

Kyra Tao

Kyra Tao, PE, PTP
Transportation Manager/
Secretary to Streetscape and Transportation Advisory Commission



Streetscape and Transportation Advisory Commission

AGENDA STAFF REPORT

TO: STREETScape AND TRANSPORTATION ADVISORY COMMISSION

FROM: ELSA ROBINSON, SENIOR MANAGEMENT ANALYST

DATE: MARCH 18, 2024

SUBJECT: **APPEAL OF DENIED TREE REMOVAL REQUEST – 2107 CARLETON CIRCLE**

RECOMMENDATION:

It is recommended that the Streetscape and Transportation Advisory Commission take the following actions:

1. Open the Public Hearing concerning the Appeal for Denied Tree Removal Request at 2107 Carleton Circle; and
2. Receive the staff report and consider all public testimony; and
3. Close the Public Hearing and Deny the Appeal for Denied Tree Removal Request at 2107 Carleton Circle.

BACKGROUND:

On May 10, 2023, the Public Works Department (Department) received a tree removal request from Ms. Heather Comey for one (1) Liquidambar styraciflua tree (Tree), located in the parkway in front of 2107 Carleton Circle (Attachment 1). The basis for the applicant's street tree removal request was that she had to install a new sewer line due to damage from the tree roots. On May 16, 2023, Ms. Comey was mailed a decision letter notifying her that her tree removal request was denied since it did not meet the criteria for Staff approval for removal as defined in the City's Urban Forest Protection Ordinance (Ordinance), Section 14.12.070 of the Placentia Municipal Code ("PMC"). On September 11, 2023, the City received via mail an appeal form from Ms. Comey for the Streetscape and Transportation Advisory Commission (Commission) to consider her tree removal request.

Tree Removal Request Review Process

On May 10, 2023, City staff inspected the tree and evaluated the reported problems with the parkway tree. The tree is a Liquidambar styraciflua. The tree was found to be in good health with no apparent structural issues or diseases present. The tree is approximately thirteen plus feet (13+') in height with a trunk diameter of fifteen plus inches (15+"). The tree has been maintained by the City as part of its four-year tree trimming cycle and was last trimmed on August 2, 2022 (Attachment 2).

Per Section 14.12.070 of the Placentia Municipal Code, a City tree can be removed based upon the following conditions:

1. Hazardous Trees. The Public Works Department shall identify hazardous trees based on the severity of the following signs of decline:
 - a. Large dead branches in the tree.
 - b. Cavities or rotten wood along the trunk or in major branches.
 - c. Mushrooms present at the base of the tree.
 - d. Cracks or splits in the trunk or where branches are attached.
 - e. Strong lean at the trunk.
 - f. Many major branches arise from one (1) point on the trunk.
 - g. Damaged, broken, or injured roots.
 - h. Tree has been topped or otherwise heavily pruned.
2. Dead Trees. Trees that are dead or have been determined by an ISA certified arborist to be in a state of severe decline with no available remedies to save the tree, although perhaps not an immediate hazard, shall be removed.
3. Emergency Removals. Healthy trees may be removed if the Director or designee decides an emergency condition exists, and tree removal is determined to be the only option available.
4. Public Safety. Healthy trees may be removed if the Director or designee decides that a public safety concern exists, and the tree removal is determined to be the only option available.
5. Other Removals. Other examples where a condition shall warrant removal include:
 - a. Diseased/Insect Infested Trees. The tree is diseased, has lost its productive capacity, and is not likely to recover despite the application of available remedies. Trees that acquire an infectious disease or are infested with an insect that is declared to be a serious pest threat to other nearby trees shall be removed, if removal is determined to be the best pest control solution by a certified arborist.
 - b. Building Damage. If a tree is causing structural damage to a building, and the condition cannot be corrected without removing the tree, or severely damaging its root structure causing it to fail or potentially topple over.
6. Surface Roots. In situations where tree roots have developed above the surface, an ISA certified arborist shall evaluate the roots and determine if root pruning can occur without

jeopardizing the health and stability of the tree. Should the arborist decide that roots cannot be pruned without jeopardizing the tree, and those same roots pose a safety concern, the tree may be removed.

7. Hardscape Damage. If hardscape repairs cannot be completed without severe root pruning which would jeopardize the health and stability of the tree, the tree may be removed. The general policy that shall be observed when repairing or replacing hardscape adjacent to a city tree is that the health and integrity of the tree take precedent over the installation of concrete or asphalt. Every effort shall be made to protect the tree from root or trunk damage.
8. Several alternatives are available for accommodating the installation of new hardscape without severely infringing upon a tree's root system. Any hardscape installation that may involve the removal of an extensive portion of a tree's root system or may require the removal of one (1) or more roots that are of a diameter greater than two (2) inches, shall first be evaluated by the certified arborist. If it is determined by the certified arborist that the removal of the offending roots might jeopardize the health or integrity of the tree, then one (1) of the following alternatives should be considered:
 - a. Offset. An offset is the tapering or reduction of a sidewalk's size down to a width no less than thirty-six (36) inches.
 - b. Reconfiguration. Sidewalks do not need to be constructed in a straight line. If the public easement can accommodate it, a sidewalk may be reconfigured to curve around a tree in a suitable manner. In some cases, the property owner may wish to extend the easement over their property to accommodate the installation of sidewalk without removing a tree. Any root removal that occurs while completing hardscape installation shall conform with the root pruning specifications provided by city staff.
 - c. In all cases, all sidewalk modifications must conform to all current ADA or CBC standards.

The following reasons are not valid for tree removal:

1. Leaf litter in gutters, on sidewalks or private property.
2. Messy/excessive fruit.
 3. Root intrusion into sewer laterals because of deteriorating infrastructure.
 4. Hardscape damage unless a feasible, economic solution does not exist to save the tree.

Appeal of City Staff's Decision

Ms. Heather Comey is appealing Staff's denial of her removal request on the basis that she believes the tree roots are raising and cracking the public sidewalk people walk on, creating a public safety hazard (Attachment 3).

The Applicant has been notified of the Commission meeting and has been sent an agenda and a copy of this staff report. Notification of the tree removal request was posted on

2107 Carleton Circle, and letters were sent to the adjacent and abutting property owners to the tree involved.

Pursuant to Section 14.12.080, of the PMC, the Commission may grant the tree removal request if it finds that the burden to the property owner if the request is denied substantially outweighs: (A) the benefit that a denial provides to the public; and (B) the burden to the public if it is granted. The decision of the commission is final. The Commission may evaluate the following factors:

- a. Species of tree.
- b. Size of the tree.
- c. Approximate age of the tree.
- d. Physical characteristics of the tree.
- e. Environmental productivity of the tree.
- f. Safety of the property owner and general public will be considered.
- g. Asset value of the tree.
- h. Utility conflicts, both above and below ground, may be considered when evaluating a removal request.
- i. Species and age diversification may be considered to determine if the street would benefit from having a more diverse street tree population to reduce threats of deforestation.

If the Commission grants the tree removal request, subsequent removal of the tree(s) shall be at the applicant's cost and expense. The property owner shall also be responsible for the cost of procuring and planting two (2) replacement trees; and funds remitted to the city shall be deposited into the City's Tree Replacement and Planting fund. The costs for removal and planting of the two (2) replacement trees are based upon the City's current tree maintenance contract rates for removal and planting.

RECOMMENDATION

The City-owned tree that has been requested to be removed is in the public right-of-way at 2107 Carleton Circle. The tree is in good condition, has been maintained appropriately on a regular schedule and is not creating a public safety hazard. Therefore, it does not meet the criteria for removal. It is recommended that the Commission deny the request to have the tree removed.

Prepared by:

Reviewed and approved:




Luis Estevez (Mar 14, 2024 10:28 PDT)

Elsa Y. Robinson
Senior Management Analyst

Luis Estevez
Deputy City Administrator

Attachments:

- 1. Tree Removal Request from Applicant
- 2. Tree Maintenance History

City Council Agenda

March 18, 2024

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3. City Letter of Denial for Tree Removal Request
4. Appeal Form/Letter from Ms. Heather Comey



City of Placentia
 Public Works Department
 401 East Chapman Avenue
 Placentia, CA 92870
 (714) 993-8148
 www.placentia.org

CITY TREE REMOVAL REQUEST FORM

TREE REMOVAL/MAINTENANCE REQUEST FORM

Please TYPE or PRINT all information clearly.



1) REQUESTOR'S INFORMATION

Date: 5/3/23 Name: Heather Conroy Phone: (714) 906-2573

Mailing Address: hconroy@hotmail.com

Email Address: 2107 Carleton Circle

2) REQUESTED ACTION

Remove Trim Plant New Tree Inspect Other: _____

Tree Species (if known): _____ Number of Trees: 1

Address/Location of Tree: 2107 Carleton Circle

Nearest Cross St: Kraemer (major cross street)

Located within a parkway Yes No Unknown

3) REASON FOR REQUEST

Causing Damage Dead Uprooted/Safety Hazard Diseased Beautify

Other/Description: had to have new sewer placed due to damage from roots.

Supplemental Data Attached: _____

FOR CITY USE ONLY

APPROVED ACTION:

Remove Trim Plant New Tree Inspect Other: _____

Tree ID# and/or Species(If known): _____ Diameter (inches) _____ Height (inches) _____

Inspected by: _____
 (Signature)

Date: _____

Director or Designee: _____
 (Signature)

Date: _____

Date of Applicant Notification: _____

Email Mail

Site Detail (33.900388970808,-117.8622592999)(WCA InventoryID: 869188)

District	Address	Location	Species	DBH	Height
5	2107 CARLETON CIR	Front-1	<i>Liquidambar styraciflua</i> AMERICAN SWEETGUM	13-18	15-30

Maintenance	Valid	Est. Value	Utility	Parkway
Grid/Routine Trim	Yes	\$3,260	No	4

Crew	Date	Work Type / Comments	Job # / Acct #	Invoice#	Amount
WCA	08/02/2022	Grid Pruning	69736	189746	\$59.00
WCA	08/08/2018	Grid Pruning	44255	139428	\$59.00
WCA	08/06/2012	Grid Pruning	22408	82158	\$39.00
WCA	07/10/2008	Grid Pruning	12683	53701	\$44.40
WCA	07/30/2001	Raises Trimming	4330		\$20.75

The People are the City

Mayor

WARD L. SMITH

Mayor Pro Tem

JEREMY B. YAMAGUCHI

Councilmembers:

KEVIN KIRWIN
RHONDA SHADER
CHAD P. WANKE



City Clerk:

ROBERT S. MCKINNELL

City Treasurer

KEVIN A. LARSON

City Administrator

DAMIEN R. ARRULA

401 East Chapman Avenue – Placentia, California 92870

May 16, 2023

Heather Camey
2107 Carleton Circle.
Placentia, Ca, 92870

SUBJECT: TREE REMOVAL REQUEST – 2107 CARLETON CIRCLE.

Dear Ms. Camey

The Public Works Department has reviewed your request for a tree removal of one (1) Liquidamber syraciflua tree located at 2107 Carleton Circle. and has denied your request.

City staff inspected the tree and evaluated the reported problems with the tree. The tree is not dead, diseased, irreparably injured, hazardous, or in a condition, that presents legitimate public safety concerns. The tree does not meet the criteria for approval for removal as defined in the City's Urban Forest Protection Ordinance, Section 14.12.070 of the Placentia Municipal Code.

The City's Urban Forest protection Ordinance was adopted to protect, preserve, and expand the City's urban forest. Trees are a valuable resource to the community that provide environmental, economic, social and public health benefits along City streets and parks, and are critical to maintaining an attractive City. The ordinance established a tree removal process and criteria for the orderly removal of City trees when appropriate. Based on inspection of the tree, City staff determined that the tree does not meet the ordinance's criteria for tree removal.

You may appeal this decision to Streetscape and Transportation Advisory Commission (Commission) by filing a written appeal within **five (5) business days** of the date of this letter. To ensure transparency and inform the public, appeals will be reviewed by the Commission at a public meeting to provide a final determination. The entire appeal policy is attached to this letter.

If you have any questions, please contact Joel Cardenas, Public Works Superintendent at (714) 993-8212 or by email at jcardenas@placentia.org.

Sincerely

Luis Estevez,
Deputy City Administrator

Attachment:

City Tree Removal Appeal Policy & Form

From: heather comey
Sent: Tuesday, July 25, 2023 10:51 AM
To: erobinson@placentia.com
Subject: Fwd: Appeal- Heather Comey

Get [Outlook for iOS](#)

From: heather comey
Sent: Monday, July 24, 2023 12:11:13 PM
To: erobinson@placentia.com <erobinson@placentia.com>
Subject: Appeal- Heather Comey

Hello Elsa,

This was one of the documents (attached) that I mentioned I would submit in the appeal email once my plumber wrote it up, shortly after I sent in the paperwork for my appeal. The damage to the pipe was caused by the tree we are requesting to take down. We are fine paying for the removal, we just need the approval. The cost of keeping it could be another several thousand dollars for the same issue in a few years. We have both our water and gas lines right where the roots of that tree grow. We are trying to mitigate any further damages. This cost us just under \$15K to replace both pipes. The 2nd pipe had another tree on our property that we will cut down ourselves. This appeal is for the one tree on the grassy area closest to the street. Thank you for your quick return call this morning and I would greatly appreciate your confirmation of receipt for this email.

Thank you,
Heather Comey
714-906-2573

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Staff Report - Tree Removal Request Appeal - 2107 Carleton Circle

Final Audit Report

2024-03-14

Created:	2024-03-14
By:	Elsa Robinson (erobinson@placentia.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAqNYQJDUK-IAbiiCdxoz6AIBX8E2i4xwG

"Staff Report - Tree Removal Request Appeal - 2107 Carleton Circle" History

-  Document created by Elsa Robinson (erobinson@placentia.org)
2024-03-14 - 4:18:35 PM GMT
-  Document emailed to Luis Estevez (lestevez@placentia.org) for signature
2024-03-14 - 4:18:41 PM GMT
-  Email viewed by Luis Estevez (lestevez@placentia.org)
2024-03-14 - 5:27:51 PM GMT
-  Document e-signed by Luis Estevez (lestevez@placentia.org)
Signature Date: 2024-03-14 - 5:28:05 PM GMT - Time Source: server
-  Agreement completed.
2024-03-14 - 5:28:05 PM GMT



Streetscape and Transportation Advisory Commission

AGENDA STAFF REPORT

TO: STREETScape AND TRANSPORTATION ADVISORY COMMISSION

FROM: ELSA ROBINSON, SENIOR MANAGEMENT ANALYST

DATE: MARCH 18, 2024

SUBJECT: **APPEAL OF DENIED TREE REMOVAL REQUEST – 626 SHERWOOD AVENUE**

RECOMMENDATION:

It is recommended that the Streetscape and Transportation Advisory Commission take the following actions:

1. Open the Public Hearing concerning the Appeal for Denied Tree Removal Request at 626 Sherwood Avenue; and
2. Receive the staff report and consider all public testimony; and
3. Close the Public Hearing and Deny the Appeal for Denied Tree Removal Request at 626 Sherwood Avenue.

BACKGROUND:

On September 25, 2023, the Public Works Department (Department) received a tree removal request from Mr. Tim Brogden for one (1) Carrotwood tree, located in the parkway in front of 626 Sherwood Avenue (Attachment 1). The basis for the applicant's street tree removal request was that tree's roots have cracked three irrigation pipes and a drain line. In addition, the request from the applicant stated that several elderly people have fallen due to ponding water and uplifted sidewalk as result of the tree. On October 4, 2023, Mr. Brogden was mailed a decision letter notifying him that his tree removal request was denied since it did not meet the criteria for Staff approval for removal a defined in the City's Urban Forest Protection Ordinance (Ordinance), Section 14.12.070 of the Placentia Municipal Code (PMC). On October 9, 2023, the City received via mail an appeal form from Mr. Brogden for the Streetscape and Transportation Advisory Commission (Commission) to consider his tree removal request.

Tree Removal Request Review Process

On September 26, 2023, City staff inspected the tree and evaluated the reported problems with the parkway tree. The tree is not dead, diseased, irreparably injured, hazardous, or in a condition that presents legitimate public safety concerns. The tree is a Carrotwood. The tree was found to be in good health with no apparent structural issues or diseases present. The tree is approximately thirty plus feet (30+') in height with a trunk diameter of nineteen plus inches

(19+”). The tree has been maintained by the City as part of its four-year tree trimming cycle and was last trimmed on July 27, 2023 (Attachment 2).

Per Section 14.12.070 of the Placentia Municipal Code, a City tree can be remove based upon the following conditions:

1. Hazardous Trees. The Public Works Department shall identify hazardous trees based on the severity of the following signs of decline:
 - a. Large dead branches in the tree.
 - b. Cavities or rotten wood along the trunk or in major branches.
 - c. Mushrooms present at the base of the tree.
 - d. Cracks or splits in the trunk or where branches are attached.
 - e. Strong lean at the trunk.
 - f. Many major branches arise from one (1) point on the trunk.
 - g. Damaged, broken, or injured roots.
 - h. Tree has been topped or otherwise heavily pruned.
2. Dead Trees. Trees that are dead or have been determined by an ISA certified arborist to be in a state of severe decline with no available remedies to save the tree, although perhaps not an immediate hazard, shall be removed.
3. Emergency Removals. Healthy trees may be removed if the Director or designee decides an emergency condition exists, and tree removal is determined to be the only option available.
4. Public Safety. Healthy trees may be removed if the Director or designee decides that a public safety concern exists, and the tree removal is determined to be the only option available.
5. Other Removals. Other examples where a condition shall warrant removal include:
 - a. Diseased/Insect Infested Trees. The tree is diseased, has lost its productive capacity, and is not likely to recover despite the application of available remedies. Trees that acquire an infectious disease or are infested with an insect that is declared to be a serious pest threat to other nearby trees shall be removed, if removal is determined to be the best pest control solution by a certified arborist.
 - b. Building Damage. If a tree is causing structural damage to a building, and the condition cannot be corrected without removing the tree, or severely damaging its root structure causing it to fail or potentially topple over.

6. **Surface Roots.** In situations where tree roots have developed above the surface, an ISA certified arborist shall evaluate the roots and determine if root pruning can occur without jeopardizing the health and stability of the tree. Should the arborist decide that roots cannot be pruned without jeopardizing the tree, and those same roots pose a safety concern, the tree may be removed.
7. **Hardscape Damage.** If hardscape repairs cannot be completed without severe root pruning which would jeopardize the health and stability of the tree, the tree may be removed. The general policy that shall be observed when repairing or replacing hardscape adjacent to a city tree is that the health and integrity of the tree take precedent over the installation of concrete or asphalt. Every effort shall be made to protect the tree from root or trunk damage.
8. Several alternatives are available for accommodating the installation of new hardscape without severely infringing upon a tree's root system. Any hardscape installation that may involve the removal of an extensive portion of a tree's root system or may require the removal of one (1) or more roots that are of a diameter greater than two (2) inches, shall first be evaluated by the certified arborist. If it is determined by the certified arborist that the removal of the offending roots might jeopardize the health or integrity of the tree, then one (1) of the following alternatives should be considered:
 - a. **Offset.** An offset is the tapering or reduction of a sidewalk's size down to a width no less than thirty-six (36) inches.
 - b. **Reconfiguration.** Sidewalks do not need to be constructed in a straight line. If the public easement can accommodate it, a sidewalk may be reconfigured to curve around a tree in a suitable manner. In some cases, the property owner may wish to extend the easement over their property to accommodate the installation of sidewalk without removing a tree. Any root removal that occurs while completing hardscape installation shall conform with the root pruning specifications provided by city staff.
 - c. In all cases, all sidewalk modification must conform to all current ADA or CBC standards.

The following reasons are not valid for tree removal:

1. Leaf litter in gutters, on sidewalks or private property.
2. Messy/excessive fruit.
 3. Root intrusion into sewer laterals because of deteriorating infrastructure.
 4. Hardscape damage unless a feasible, economic solution does not exist to save the tree.

Appeal of City Staff's Decision

Mr. Tim Brogden is appealing Staff's denial of his tree removal request on the basis that he believes the tree is a hazard to the sidewalk and property (Attachment 3). In addition, he stated in his appeal letter that he has experience sewer issues due to roots from the tree. He

noted that there been several instances where people walking by have tripped due to the sidewalk and that is extremely destructive to vehicles that parked next to the tree.

The Applicant has been notified of the Commission meeting and has been sent an agenda and a copy of this staff report. Notification of the tree removal request was posted on January 10, 2024, and letters were sent to the adjacent and abutting property owners to the tree involved.

Pursuant to Section 14.12.080, of the PMC, the Commission may grant the tree removal request if it finds that the burden to the property owner if the request is denied substantially outweighs: (A) the benefit that a denial provides to the public; and (B) the burden to the public if it is granted. The decision of the commission is final. The Commission may evaluate the following factors:

- a. Species of tree.
- b. Size of the tree.
- c. Approximate age of the tree.
- d. Physical characteristics of the tree.
- e. Environmental productivity of the tree.
- f. Safety of the property owner and general public will be considered.
- g. Asset value of the tree.
- h. Utility conflicts, both above and below ground, may be considered when evaluating a removal request.
- i. Species and age diversification may be considered to determine if the street would benefit from having a more diverse street tree population to reduce threats of deforestation.

If the Commission grants the tree removal request, subsequent removal of the tree(s) shall be at the applicant's cost and expense. The property owner shall also be responsible for the cost of procuring and planting two (2) replacement trees; and funds remitted to the city shall be deposited into the City's Tree Replacement and Planting fund. The costs for removal and planting of the two (2) replacement trees are based upon the City's current tree maintenance contract rates for removal and planting.

RECOMMENDATION

The City-owned tree that has been requested to be removed is in the public right-of-way at 626 Sherwood Avenue. The tree is not dead, diseased, irreparably injured, hazardous, or in a condition that presents legitimate public safety concerns. Therefore, it does not meet the criteria for removal. It is recommended that the Commission deny the request to have the tree removed.

Prepared by:



Elsa Y. Robinson
Senior Management Analyst

Reviewed and approved:



Luis Estevez (Mar 14, 2024 10:28 PDT)

Luis Estevez
Deputy City Administrator

Attachments:

1. Tree Removal Request from Applicant
2. Tree Maintenance History
3. City Letter of Denial for Tree Removal Request
4. Appeal Form & Letter from Mr. Tim Brogden



City of Placentia
 Public Works Department
 401 East Chapman Avenue
 Placentia, CA 92870
 (714) 993-8148
 www.placentia.org

CITY TREE REMOVAL REQUEST FORM

TREE REMOVAL/MAINTENANCE REQUEST FORM

Please TYPE or PRINT all information clearly.



1) REQUESTOR'S INFORMATION

Date: 5/3/23 Name: Heather Conroy Phone: (714) 906-2573

Mailing Address: hconroy@hotmail.com

Email Address: 2107 Carleton Circle

2) REQUESTED ACTION

Remove Trim Plant New Tree Inspect Other: _____

Tree Species (if known): _____ Number of Trees: 1

Address/Location of Tree: 2107 Carleton Circle

Nearest Cross St: Kraemer (major cross street)

Located within a parkway Yes No Unknown

3) REASON FOR REQUEST

Causing Damage Dead Uprooted/Safety Hazard Diseased Beautify

Other/Description: had to have new sewer placed due to damage from roots.

Supplemental Data Attached: _____

FOR CITY USE ONLY

APPROVED ACTION:

Remove Trim Plant New Tree Inspect Other: _____

Tree ID# and/or Species(If known): _____ Diameter (inches) _____ Height (inches) _____

Inspected by: _____
 (Signature)

Date: _____

Director or Designee: _____
 (Signature)

Date: _____

Date of Applicant Notification: _____

Email Mail

Site Detail (33.900388970808,-117.8622592999)(WCA InventoryID: 869188)

District	Address	Location	Species	DBH	Height
5	2107 CARLETON CIR	Front-1	<i>Liquidambar styraciflua</i> AMERICAN SWEETGUM	13-18	15-30

Maintenance	Valid	Est. Value	Utility	Parkway
Grid/Routine Trim	Yes	\$3,260	No	4

Crew	Date	Work Type / Comments	Job # / Acct #	Invoice#	Amount
WCA	08/02/2022	Grid Pruning	69736	189746	\$59.00
WCA	08/08/2018	Grid Pruning	44255	139428	\$59.00
WCA	08/06/2012	Grid Pruning	22408	82158	\$39.00
WCA	07/10/2008	Grid Pruning	12683	53701	\$44.40
WCA	07/30/2001	Raises Trimming	4330		\$20.75

The People are the City

Mayor

WARD L. SMITH

Mayor Pro Tem

JEREMY B. YAMAGUCHI

Councilmembers:

KEVIN KIRWIN
RHONDA SHADER
CHAD P. WANKE



City Clerk:

ROBERT S. MCKINNELL

City Treasurer

KEVIN A. LARSON

City Administrator

DAMIEN R. ARRULA

401 East Chapman Avenue – Placentia, California 92870

May 16, 2023

Heather Camey
2107 Carleton Circle.
Placentia, Ca, 92870

SUBJECT: TREE REMOVAL REQUEST – 2107 CARLETON CIRCLE.

Dear Ms. Camey

The Public Works Department has reviewed your request for a tree removal of one (1) Liquidamber syraciflua tree located at 2107 Carleton Circle. and has denied your request.

City staff inspected the tree and evaluated the reported problems with the tree. The tree is not dead, diseased, irreparably injured, hazardous, or in a condition, that presents legitimate public safety concerns. The tree does not meet the criteria for approval for removal as defined in the City's Urban Forest Protection Ordinance, Section 14.12.070 of the Placentia Municipal Code.

The City's Urban Forest protection Ordinance was adopted to protect, preserve, and expand the City's urban forest. Trees are a valuable resource to the community that provide environmental, economic, social and public health benefits along City streets and parks, and are critical to maintaining an attractive City. The ordinance established a tree removal process and criteria for the orderly removal of City trees when appropriate. Based on inspection of the tree, City staff determined that the tree does not meet the ordinance's criteria for tree removal.

You may appeal this decision to Streetscape and Transportation Advisory Commission (Commission) by filing a written appeal within **five (5) business days** of the date of this letter. To ensure transparency and inform the public, appeals will be reviewed by the Commission at a public meeting to provide a final determination. The entire appeal policy is attached to this letter.

If you have any questions, please contact Joel Cardenas, Public Works Superintendent at (714) 993-8212 or by email at jcardenas@placentia.org.

Sincerely

Luis Estevez,
Deputy City Administrator

Attachment:

City Tree Removal Appeal Policy & Form

From: heather comey
Sent: Tuesday, July 25, 2023 10:51 AM
To: erobinson@placentia.com
Subject: Fwd: Appeal- Heather Comey

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From: heather comey
Sent: Monday, July 24, 2023 12:11:13 PM
To: erobinson@placentia.com <erobinson@placentia.com>
Subject: Appeal- Heather Comey

Hello Elsa,

This was one of the documents (attached) that I mentioned I would submit in the appeal email once my plumber wrote it up, shortly after I sent in the paperwork for my appeal. The damage to the pipe was caused by the tree we are requesting to take down. We are fine paying for the removal, we just need the approval. The cost of keeping it could be another several thousand dollars for the same issue in a few years. We have both our water and gas lines right where the roots of that tree grow. We are trying to mitigate any further damages. This cost us just under \$15K to replace both pipes. The 2nd pipe had another tree on our property that we will cut down ourselves. This appeal is for the one tree on the grassy area closest to the street. Thank you for your quick return call this morning and I would greatly appreciate your confirmation of receipt for this email.

Thank you,
Heather Comey
714-906-2573

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Staff Report - Tree Removal Request Appeal - 626 Sherwood Avenue

Final Audit Report

2024-03-14

Created:	2024-03-14
By:	Elsa Robinson (erobinson@placentia.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAmUXOGUqBkvUJAPc6-ifa4g95zEzS6Fns

"Staff Report - Tree Removal Request Appeal - 626 Sherwood Avenue" History

-  Document created by Elsa Robinson (erobinson@placentia.org)
2024-03-14 - 4:20:40 PM GMT
-  Document emailed to Luis Estevez (lestevez@placentia.org) for signature
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-  Email viewed by Luis Estevez (lestevez@placentia.org)
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-  Document e-signed by Luis Estevez (lestevez@placentia.org)
Signature Date: 2024-03-14 - 5:28:24 PM GMT - Time Source: server
-  Agreement completed.
2024-03-14 - 5:28:24 PM GMT



Streetscape and Transportation Advisory Commission

AGENDA STAFF REPORT

TO: STREETScape AND TRANSPORTATION ADVISORY COMMISSION
FROM: ELSA ROBINSON, SENIOR MANAGEMENT ANALYST
DATE: MARCH 18, 2024
SUBJECT: **APPEAL OF DENIED TREE REMOVAL REQUEST – 1913 TWAIN PLACE**

RECOMMENDATION:

It is recommended that the Streetscape and Transportation Advisory Commission take the following actions:

1. Open the Public Hearing concerning the Appeal for Denied Tree Removal Request at 1913 Twain Place; and
2. Receive the staff report and consider all public testimony; and
3. Close the Public Hearing and Deny the Appeal for Denied Tree Removal Request at 1913 Twain Place.

BACKGROUND:

On August 2, 2023, the Public Works Department (Department) received a tree removal request from Mr. Jerry Thompsen for one (1) Liquidambar styraciflua tree (Tree), located in the parkway in front of 1913 Twain Place (Attachment 1). The basis for the applicant's street tree removal request was that the tree has lifted the sidewalk and has become a tripping hazard for the neighborhood children. On August 29, 2023, Mr. Thompsen was mailed a decision letter notifying him that his tree removal request was denied since it did not meet the criteria for Staff approval for removal as defined in the City's Urban Forest Protection Ordinance (Ordinance), Section 14.12.070 of the Placentia Municipal Code ("PMC"). On September 11, 2023, the City received via mail an appeal form from Ms. Thompsen for the Streetscape and Transportation Advisory Commission (Commission) to consider his tree removal request.

Tree Removal Request Review Process

On August 9, 2023, City staff inspected the tree and evaluated the reported problems with the parkway tree. The tree is not dead, diseased, irreparably injured, hazardous, or in a condition that presents legitimate public safety concerns. The tree is a Liquidambar styraciflua. The tree was found to be in good health with no apparent structural issues or diseases present. The tree is approximately thirteen plus feet (13+') in height with a trunk diameter of fifteen plus inches (15+"). The tree has been maintained by the City as part of its four-year tree trimming cycle and was last trimmed on August 5, 2022 (Attachment 2).

Per Section 14.12.070 of the Placentia Municipal Code, a City tree can be remove based upon the following conditions:

1. Hazardous Trees. The Public Works Department shall identify hazardous trees based on the severity of the following signs of decline:
 - a. Large dead branches in the tree.
 - b. Cavities or rotten wood along the truck or in major branches.
 - c. Mushrooms present at the base of the tree.
 - d. Cracks or splits in the trunk or where branches are attached.
 - e. Strong lean at the trunk.
 - f. Many major branches arise from one (1) point on the trunk.
 - g. Damaged, broken, or injured roots.
 - h. Tree has been topped or otherwise heavily pruned.
2. Dead Trees. Trees that are dead or have been determined by an ISA certified arborist to be in a state of severe decline with no available remedies to save the tree, although perhaps not an immediate hazard, shall be removed.
3. Emergency Removals. Healthy trees may be removed if the Director or designee decides an emergency condition exists, and tree removal is determined to be the only option available.
4. Public Safety. Healthy trees may be removed if the Director or designee decides that a public safety concern exists, and the tree removal is determined to be the only option available.
5. Other Removals. Other examples where a condition shall warrant removal include:
 - a. Diseased/Insect Infested Trees. The tree is diseased, has lost its productive capacity, and is not likely to recover despite the application of available remedies. Trees that acquire an infectious disease or are infested with an insect that is declared to be a serious pest threat to other nearby trees shall be removed, if removal is determined to be the best pest control solution by a certified arborist.
 - b. Building Damage. If a tree is causing structural damage to a building, and the condition cannot be corrected without removing the tree, or severely damaging its root structure causing it to fail or potentially topple over.

6. **Surface Roots.** In situations where tree roots have developed above the surface, an ISA certified arborist shall evaluate the roots and determine if root pruning can occur without jeopardizing the health and stability of the tree. Should the arborist decide that roots cannot be pruned without jeopardizing the tree, and those same roots pose a safety concern, the tree may be removed.
7. **Hardscape Damage.** If hardscape repairs cannot be completed without severe root pruning which would jeopardize the health and stability of the tree, the tree may be removed. The general policy that shall be observed when repairing or replacing hardscape adjacent to a city tree is that the health and integrity of the tree take precedent over the installation of concrete or asphalt. Every effort shall be made to protect the tree from root or trunk damage.
8. Several alternatives are available for accommodating the installation of new hardscape without severely infringing upon a tree's root system. Any hardscape installation that may involve the removal of an extensive portion of a tree's root system or may require the removal of one (1) or more roots that are of a diameter greater than two (2) inches, shall first be evaluated by the certified arborist. If it is determined by the certified arborist that the removal of the offending roots might jeopardize the health or integrity of the tree, then one (1) of the following alternatives should be considered:
 - a. **Offset.** An offset is the tapering or reduction of a sidewalk's size down to a width no less than thirty-six (36) inches.
 - b. **Reconfiguration.** Sidewalks do not need to be constructed in a straight line. If the public easement can accommodate it, a sidewalk may be reconfigured to curve around a tree in a suitable manner. In some cases, the property owner may wish to extend the easement over their property to accommodate the installation of sidewalk without removing a tree. Any root removal that occurs while completing hardscape installation shall conform with the root pruning specifications provided by city staff.
 - c. In all cases, all sidewalk modification must conform to all current ADA or CBC standards.

The following reasons are not valid for tree removal:

1. Leaf litter in gutters, on sidewalks or private property.
2. Messy/excessive fruit.
 3. Root intrusion into sewer laterals because of deteriorating infrastructure.
 4. Hardscape damage unless a feasible, economic solution does not exist to save the tree.

Appeal of City Staff's Decision

Mr. Jerry Thompsen is appealing Staff's denial of his tree removal request on the basis that he believes the tree roots are raising and cracking the public sidewalk people walk on, creating a public safety hazard (Attachment 3).

The Applicant has been notified of the Commission meeting and has been sent an agenda and a copy of this staff report. Notification of the tree removal request was posted on January 10, 2024, and letters were sent to the adjacent and abutting property owners to the tree involved.

Pursuant to Section 14.12.080, of the PMC, the Commission may grant the tree removal request if it finds that the burden to the property owner if the request is denied substantially outweighs: (A) the benefit that a denial provides to the public; and (B) the burden to the public if it is granted. The decision of the commission is final. The Commission may evaluate the following factors:

- a. Species of the tree.
- b. Size of the tree.
- c. Approximate age of the tree.
- d. Physical characteristics of the tree.
- e. Environmental productivity of the tree.
- f. Safety of the property owner and general public will be considered.
- g. Asset value of the tree.
- h. Utility conflicts, both above and below ground, may be considered when evaluating a removal request.
- i. Species and age diversification may be considered to determine if the street would benefit from having a more diverse street tree population to reduce threats of deforestation.

If the Commission grants the tree removal request, subsequent removal of the tree(s) shall be at the applicant's cost and expense. The property owner shall also be responsible for the cost of procuring and planting two (2) replacement trees; and funds remitted to the city shall be deposited into the City's Tree Replacement and Planting fund. The costs for removal and planting of the two (2) replacement trees are based upon the City's current tree maintenance contract rates for removal and planting.

RECOMMENDATION

The City-owned tree that has been requested to be removed is in the public right-of-way at 1913 Twain Place. The tree is in good condition, has been maintained appropriately on a regular schedule and is not creating a public safety hazard. Therefore, it does not meet the criteria for removal. It is recommended that the Commission deny the request to have the tree removed.

Prepared by:

Elsa Robinson

Elsa Y. Robinson
Senior Management Analyst

Reviewed and approved:



Luis Estevez (Mar 14, 2024 10:28 PDT)

Luis Estevez
Deputy City Administrator

Attachments:

1. Tree Removal Request from Applicant
2. Tree Maintenance History
3. City Letter of Denial for Tree Removal Request
4. Appeal Form & Letter from Mr. Jerry Thompsen



City of Placentia
 Public Works Department
 401 East Chapman Avenue
 Placentia, CA 92870
 (714) 993-8148
 www.placentia.org

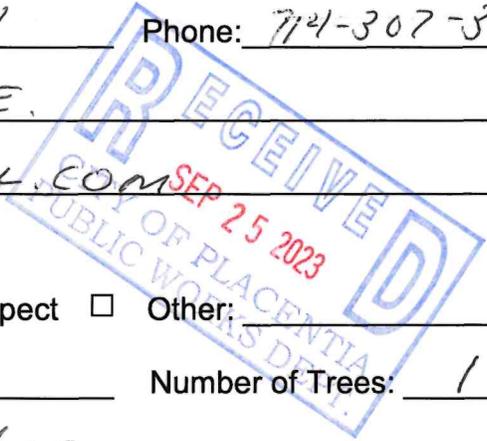
CITY TREE REMOVAL REQUEST FORM

TREE REMOVAL/MAINTENANCE REQUEST FORM

Please TYPE or PRINT all information clearly.

1) REQUESTOR'S INFORMATION

Date: 9-25-23 Name: TIM BROGDEN Phone: 714-307-3919
 Mailing Address: 626 SHERWOOD AVE.
 Email Address: TBROGDEN58@GMAIL.COM



2) REQUESTED ACTION

Remove Trim Plant New Tree Inspect Other: _____

Tree Species (if known): CARLEWOOD Number of Trees: 1

Address/Location of Tree: 626 SHERWOOD AVE

Nearest Cross St: CAMBRIDGE

Located within a parkway Yes No Unknown

3) REASON FOR REQUEST

Causing Damage Dead Uprooted/Safety Hazard Diseased Beautify

Other/Description: HAS CRACKED THREE IRRIGATION PIPES & DRAIN LINE

Supplemental Data Attached: HAS CRACKED & UP LIFTED SIDEWALK

FOR CITY USE ONLY

APPROVED ACTION:

Remove Trim Plant New Tree Inspect Other: _____

Tree ID# and/or Species (If known): _____ Diameter (inches) _____ Height (inches) _____

Inspected by: _____ Date: _____
 (Signature)

Director or Designee: _____ Date: _____
 (Signature)

Date of Applicant Notification: _____ Email Mail

I have had several elderly people
who walk in the neighborhood
trip/slip and fall due to water
and uplifted sidewalk.

Site Detail (33.893011189644,-117.87570584168)(WCA InventoryID: 869829)

District	Address	Location	Species	DBH	Height
13	626 SHERWOOD AV	Front-1	<i>Cupaniopsis anacardioides</i> CARROTWOOD	19-24	30-45

Maintenance	Valid	Est. Value	Utility	Parkway
Grid/Routine Trim	Yes	\$6,080	No	4

Crew	Date	Work Type / Comments	Job # / Acct #	Invoice#	Amount
WCA	07/27/2023	Grid Pruning	76555	202804	\$64.00
WCA	09/16/2019	Grid Pruning	50026	152649	\$59.00
WCA	07/31/2012	Grid Pruning	22408	81848	\$39.00
WCA	11/05/2007	Grid Pruning	11078	49949	\$43.00
WCA	11/23/2004	Prune Backup - Crew	7348	34956	Hourly
WCA	06/25/2003	Trim Backup - Crew	5271		Hourly
WCA	07/16/2001	Raises Trimming	4330		\$20.75

The People are the City

Mayor

WARD L. SMITH

Mayor Pro Tem

JEREMY B. YAMAGUCHI

Councilmembers:

KEVIN KIRWIN
RHONDA SHADER
CHAD P. WANKE



City Clerk:

ROBERT S. MCKINNELL

City Treasurer

KEVIN A. LARSON

City Administrator

DAMIEN R. ARRULA

401 East Chapman Avenue – Placentia, California 92870

October 4, 2023

Tim Brogoen
626 Sherwood Ave.
Placentia, Ca, 92870

SUBJECT: TREE REMOVAL REQUEST – 626 SHERWOOD AVE.

Dear Mr. Brogoen

The Public Works Department has reviewed your request for a tree removal of one (1) Carrotwood tree located at 626 Sherwood Ave. and has denied your request.

City staff inspected the tree and evaluated the reported problems with the tree. The tree is not dead, diseased, irreparably injured, hazardous, or in a condition, that presents legitimate public safety concerns. The tree does not meet the criteria for approval for removal as defined in the City's Urban Forest Protection Ordinance, Section 14.12.070 of the Placentia Municipal Code.

The City's Urban Forest protection Ordinance was adopted to protect, preserve, and expand the City's urban forest. Trees are a valuable resource to the community that provide environmental, economic, social and public health benefits along City streets and parks, and are critical to maintaining an attractive City. The ordinance established a tree removal process and criteria for the orderly removal of City trees when appropriate. Based on inspection of the tree, City staff determined that the tree does not meet the ordinance's criteria for tree removal.

You may appeal this decision to Streetscape and Transportation Advisory Commission (Commission) by filing a written appeal within **five (5) business days** of the date of this letter. To ensure transparency and inform the public, appeals will be reviewed by the Commission at a public meeting to provide a final determination. The entire appeal policy is attached to this letter.

If the Commission grants the Tree Removal Request, subsequent removal of the tree(s) and stumps shall be at the property owner's cost and expense. Property owner shall also be responsible for the cost of procuring and planting two (2) replacement, 24" box trees; and funds remitted to the City shall be deposited into the City's Tree Replacement and Planting Fund, as described in Section 14.12.090 of the Placentia Municipal Code for that purpose.

If you have any questions, please contact Joel Cardenas, Public Works Superintendent at (714) 993-8212 or by email at jcardenas@placentia.org.

Sincerely

Luis Estevez,
Deputy City Administrator

Attachment:

City Tree Removal Appeal Policy & Form



City of Placentia
 Public Works Department
 401 East Chapman Avenue
 Placentia, CA 92870
 (714) 993-8148

CITY TREE REMOVAL APPEAL FORM

APPEAL OF TREE REMOVAL REQUEST

Please TYPE or PRINT all information clearly.

Pursuant to PMC, Chapter 14.12, a denied Tree Removal Request made by the Director of Public Works may be appealed to the Streetscape and Transportation Advisory Commission by filing a written notice of appeal with the Public Works Department. Appeals shall be filed within **five (5)** business days of the date of denial.

1) APPELLANT'S INFORMATION

Name: Tim BROGDEN Phone: 714-307-3919
 Mailing Address: 626 SHERWOOD AVE PLACENTIA, CA 92870
 Email Address: Tbrogden58@gmail.com
 Date of Administrative Decision: 10-4-23

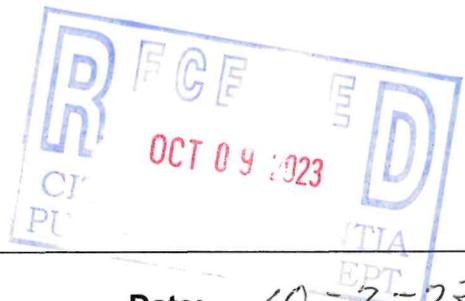
2) LOCATION OF PROPOSED TREE REMOVAL

Address: 626 SHERWOOD AVE

3) REASON FOR APPEAL

Please state the specific reason(s) for the appeal (use separate sheet if necessary).

SEE ATTACHED letter



Appellant's Signature: T. Brogden Date: 10-7-23

FOR CITY USE ONLY

Date Received: _____	Received by: _____
Appeal File No: _____	Related File No: _____
Commissions' Meeting Date: _____	
Decision by Commission: _____	<input type="checkbox"/> Appeal Granted <input type="checkbox"/> Appeal Denied

City of Placentia
401 East Chapman Ave
Placentia, Ca. 92870

Subject: Tree Removal Request Appeal 626 Sherwood Ave

To Streetscape and Transportation Advisory Commission:

I submitted a request for the removal of a Carrotwood tree on September 25, 2023. It was denied on October 4, 2023. The denial letter stated it did not meet the criteria. However, the tree may still be alive, but it is certainly a hazard to the sidewalk and property (including vehicles parked on the curb). I have had to repair irrigation lines three times due to damage from roots. I have also had to have a plumber clear out the small roots from inside the sewer line because it became completely clogged. There is currently a massive root that appears to be going through the water meter and/or water line connected to it. It is only a matter of time before it breaks those structures. Most of the sidewalk has been lifted and cracked from these roots. There have been several instances where people walking by have tripped and fell because of the sidewalk. These people become very angry with me, even though I can't do anything about it. Fortunately, nobody has been seriously injured yet. This tree is EXTREMELY destructive to the vehicles that are parked on the curb when it is dropping its shells and seeds. It simply ruins the paint job of vehicles with the stains and scratches. On several occasions over the last two decades large heavy branches have fallen from this tree. It has simply been luck that they have not fell on the vehicles parked there.

I would be more than happy to pay for the fees associated with the removal of this tree. I understand that I would need to pay for the encroachment permit, the removal of tree, and the procuring of a new tree (24" box) to be planted. I would prefer a Crape Murtle (preferably red) which would be a much more beautiful tree and far less destructive. I thank you for your time and consideration into this matter.

Sincerely,



Tim Brogden



Staff Report - Tree Removal Request Appeal - 1913 Twain Place

Final Audit Report

2024-03-14

Created:	2024-03-14
By:	Elsa Robinson (erobinson@placentia.org)
Status:	Signed
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Streetscape and Transportation Advisory Commission

AGENDA REPORT

TO: STREETScape AND TRANSPORTATION ADVISORY COMMISSION
FROM: PUBLIC WORKS MANAGER
DATE: MARCH 18, 2024
SUBJECT: **2023 CITYWIDE TREE PLANTING UPDATES**

SUMMARY:

The City boasts a rich biodiversity with 6,738 different species thriving in parks, parkways, and medians. In 2023, the City contractor executed 2,273 tree trimmings, during the third year of a four-year cycle. This included the removal of 62 dead and/or diseased trees throughout the City. The City tree planting program saw the addition of 194 new trees in diverse locations across the City.

Prepared by:

Samantha Byfield

Samantha Byfield
Public Works Manager

Reviewed and approved:

Luis Estevez

Luis Estevez (Mar 14, 2024 10:29 PDT)

Luis Estevez
Deputy City Administrator

Staff Report - Citywide Tree Planting Updates

Final Audit Report

2024-03-14

Created:	2024-03-14
By:	Elsa Robinson (erobinson@placentia.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAKietLKj66Yho7j4NQ7bQ6O3uc2aeBt_Z

"Staff Report - Citywide Tree Planting Updates" History

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-  Document emailed to Samantha Byfield (sbyfield@placentia.org) for signature
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-  Document emailed to Luis Estevez (lestevez@placentia.org) for signature
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-  Email viewed by Samantha Byfield (sbyfield@placentia.org)
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-  Document e-signed by Samantha Byfield (sbyfield@placentia.org)
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-  Document e-signed by Luis Estevez (lestevez@placentia.org)
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Streetscape and Transportation Advisory Commission

AGENDA STAFF REPORT

TO: STREETScape AND TRANSPORTATION ADVISORY COMMISSION

FROM: KYRA TAO, TRANSPORTATION MANAGER

DATE: MARCH 18, 2024

SUBJECT: **2023 ENGINEERING AND TRAFFIC SURVEY REPORT**

RECOMMENDATION:

It is recommended that the Streetscape and Transportation Advisory Commission take the following actions:

1. Review the Engineering and Traffic Survey Report and ask questions of staff; and
2. Recommend City Council approval of the 2023 Engineering and Traffic Survey Report.

BACKGROUND:

Placentia Municipal Code 13.28.010 designates the prima facie speed limit of speed zones based on the 2013 Engineering and Traffic Survey (E&TS). The State of California Vehicle Code (CVC) requires that an Engineering and Traffic Survey be conducted at least every ten years, and the survey's result be followed in establishing or adjusting the posted speed limit on streets where radar would be used as an enforcement tool. Speed limits are normally set near the 85th percentile speed that statistically represents one standard deviation above the average speed and establishes the upper limit of what is considered reasonable and prudent. As with most laws, speed limits need to depend on the voluntary compliance of the greater majority of motorists. Speed limits cannot be set arbitrarily low, as this would create a situation where a majority of drivers would violate the law.

SUMMARY:

Staff retained the traffic consultant Lin Consulting, Inc. to conduct the 2023 Engineering and Traffic Survey. Speed surveys were collected in October and November 2023 for 73 speed zones throughout the City. Based upon the findings of the survey, the current posted speed limits are adequate, and no changes are proposed throughout the city. A summary of all recommended speed zones surveyed is provided by location in the attachment. Based upon the findings of the survey, the current posted speed limits will remain unchanged throughout the city.

Prepared by:

Kyra Tao

Kyra Tao
Transportation Manager

Reviewed and approved:



Luis Estevez (Mar 14, 2024 10:29 PDT)

Luis Estevez
Deputy City Administrator

Attachments:

1. 2023 Engineering and Traffic Survey Report

Staff Report -2023 Engineering and Traffic Survey Report

Final Audit Report

2024-03-14

Created:	2024-03-14
By:	Elsa Robinson (erobinson@placentia.org)
Status:	Signed
Transaction ID:	CBJCHBCAABAAR2QWZSU24tNzfo4bitZW9b8x49dpkAGO

"Staff Report -2023 Engineering and Traffic Survey Report" History

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-  Document emailed to Kyra Tao (ktao@placentia.org) for signature
2024-03-14 - 5:25:54 PM GMT
-  Document emailed to Luis Estevez (lestevez@placentia.org) for signature
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-  Email viewed by Luis Estevez (lestevez@placentia.org)
2024-03-14 - 5:29:23 PM GMT
-  Document e-signed by Luis Estevez (lestevez@placentia.org)
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-  Email viewed by Kyra Tao (ktao@placentia.org)
2024-03-14 - 5:58:23 PM GMT
-  Document e-signed by Kyra Tao (ktao@placentia.org)
Signature Date: 2024-03-14 - 5:58:52 PM GMT - Time Source: server
-  Agreement completed.
2024-03-14 - 5:58:52 PM GMT

2023 Engineering and Traffic Survey

PLACENTIA, CA

LIN Consulting, Inc.

Traffic, Civil, and Electrical Consulting Engineers

Prepared by:
LIN Consulting, Inc.

For:
City of Placentia

March 13, 2024

City of Placentia 2023 Engineering and Traffic Survey

February 2024, Prepared by LIN Consulting, Inc.

This Engineering and Traffic Survey has been prepared under the direction of the following registered engineers. The registered Civil Engineer attests to the technical information contained herein and have judged the qualifications of any technical specialists providing engineering data upon which recommendations, conclusions and decisions are based.



Mohammad Qureshi, P.E., T.E.

LIN Consulting



Approved:



Kyra Tao, P.E.

Transportation Manager

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1.0 EXECUTIVE SUMMARY

The intent of this Engineering and Traffic Survey (E&TS) is to establish and review prima facie speed limit zones set on certain public roadways within the jurisdiction of the City of Placentia (City). Through this process, the E&TS goal is to obtain voluntary compliance in appropriately determined speed limits by gaining public confidence in a fair process, while also considering overall roadway safety with limited need for regular enforcement.

This E&TS meets the criteria set forth and establishes these speed limits in compliance with California Vehicle Code (CVC) 40802. In coordination with the City of Placentia, it was determined that 73 segments were candidates for speed zone surveys.

CVC provides the legal framework for cities and counties to enact local speed limit zones within their jurisdiction. California law states that speed limits are based upon an E&TS that includes prevailing speeds, accident records, and highway, traffic and roadside conditions not readily apparent to the drivers as well as other factors as defined in CVC 627. The E&TS also satisfies the requirements set forth in CVC 40802, which defines a “speed trap”: a practice that is prohibited by State law whereby a speed limit is set arbitrarily low on streets other than streets classified as “local” streets. Furthermore, CVC prohibits speed reductions based on conditions that are already apparent to a reasonable driver. State law also governs how speed limits may be rounded to the nearest 5 mph increment based upon prevailing speeds.

Based on the findings in this E&TS for each speed zone, it is recommended that posted speeds remain as currently established and posted.

A summary of all recommended speed zones surveyed are provided by location in **Table 1-1**.

Table 1-1. Speed Zone Recommendations

No.	Street Name	From	to	Existing Posted Speed Limit (mph)	85th % Speed (mph)	85th % Speed Rounded (mph)	Recommended Posted Speed (mph)	Reason for Recommended Speed Limit
1	All America Way	Alta Vista St	Chapman Ave	35	35.8	35	35	Closest to 85th percentile speed
2	Alta Vista St	Angelina Dr	Kraemer Blvd	25	29.0	30	25	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
3	Alta Vista St	Kraemer Blvd	Rose Dr	45	45.4	45	45	Closest to 85th percentile speed
4	Alta Vista St	Rose Dr	Jefferson St	45	46.2	45	45	Closest to 85th percentile speed
5	Alta Vista St	Jefferson St	Van Buren St	40	43.1	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
6	Angelina Dr	Chapman Ave	Alta Vista St	35	37.5	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
7	Angelina Dr	Morse Ave	Palm Dr	35	34.7	35	35	Closest to 85th percentile speed
8	Bastanchury Rd	West City Limit	Kraemer Blvd	45	45.3	45	45	Closest to 85th percentile speed
9	Bastanchury Rd	Kraemer Blvd	Valencia Ave	45	45.5	45	45	Closest to 85th percentile speed
10	Bastanchury Rd	Valencia Ave	East City Limit	45	47.9	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
11	Bradford Ave	Santa Fe Ave	Chapman Ave	25	27.7	30	25	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
12	Bradford Ave	Chapman Ave	Madison Ave	30	34.3	35	30	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
13	Bradford Ave	Madison Ave	North City Limit	35	38.1	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed

No.	Street Name	From	to	Existing Posted Speed Limit (mph)	85th % Speed (mph)	85th % Speed Rounded (mph)	Recommended Posted Speed (mph)	Reason for Recommended Speed Limit
14	Brookhaven Ave	Yorba Linda Blvd	Bastanchury Rd	30	33.4	35	30	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
15	Buena Vista Ave	Rose Dr	East City Limit	45	45.6	45	45	Closest to 85th percentile speed
16	Central Ave	Chapman Ave	Alta Vista St	40	40.6	40	40	Closest to 85th percentile speed
17	Chapman Ave	Placentia Ave	Kraemer Blvd	35	38.9	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
18	Chapman Ave	Kraemer Blvd	Orangethorpe Ave	40	42.3	40	40	Closest to 85th percentile speed
19	Crowther Ave	Placentia Ave	Porter Way	40	37.9	40	40	Closest to 85th percentile speed
20	Crowther Ave	Porter Way	East City Limit	45	48.6	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
21	Fee Ana St	South City Limit	North Terminus	35	36.5	35	35	Closest to 85th percentile speed
22	Golden Ave	Kraemer Blvd	Valencia Ave	40	43.8	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
23	Golden Ave	Valencia Ave	East City Limit	35	38.6	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
24	Highland Ave	Orangethorpe Ave	North City Limit	30	30.9	30	30	Closest to 85th percentile speed
25	Jefferson Ave	South City Limit	Orangethorpe Ave	40	43.2	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
26	Jefferson Ave	Orangethorpe Ave	Alta Vista St	40	39.0	40	40	Closest to 85th percentile speed
27	Jefferson Ave	Alta Vista St	Garten Dr	35	38.4	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
28	Kraemer Blvd	South City Limit	Orangethorpe Ave	40	42.3	40	40	Closest to 85th percentile speed

No.	Street Name	From	to	Existing Posted Speed Limit (mph)	85th % Speed (mph)	85th % Speed Rounded (mph)	Recommended Posted Speed (mph)	Reason for Recommended Speed Limit
29	Kraemer Blvd	Crowther Ave	Chapman Ave	40	41.5	40	40	Closest to 85th percentile speed
30	Kraemer Blvd	Chapman Ave	Fairway Lane	40	42.6	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
31	Kraemer Blvd	Fairway Lane	Yorba Linda Blvd	40	42.8	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
32	Kraemer Blvd	Yorba Linda Blvd	Bastanchury Rd	45	44.6	45	45	Closest to 85th percentile speed
33	Kraemer Blvd	Bastanchury Rd	North City Limit	40	43.6	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
34	La Jolla St	Placentia Ave	Melrose St	30	30.2	30	30	Closest to 85th percentile speed
35	La Jolla St	Melrose St	East City Limit	30	33.2	35	30	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
36	Lakeview Ave	South City Limit	North City Limit	45	48.8	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
37	Linda Vista St	Rose Dr	Yorba Linda Blvd	35	33.6	35	35	Closest to 85th percentile speed
38	Livingston Ave	Clark Ave	Kraemer Blvd	25	24.9	25	25	Closest to 85th percentile speed
39	Madison Ave	West City Limit	Kraemer Blvd	35	38.7	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
40	McCormack Lane	Yorba Linda Blvd	North City Limit	30	29.6	30	30	Closest to 85th percentile speed
41	McCormack Lane	City Limit	Golden Ave	30	33.3	35	30	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
42	Melrose St	South City Limit	La Jolla St	35	37.5	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed

No.	Street Name	From	to	Existing Posted Speed Limit (mph)	85th % Speed (mph)	85th % Speed Rounded (mph)	Recommended Posted Speed (mph)	Reason for Recommended Speed Limit
43	Melrose St	La Jolla St	Orangethorpe Ave	35	38.9	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
44	Melrose St	Orangethorpe Ave	Crowther Ave	40	40.7	40	40	Closest to 85th percentile speed
45	Melrose St	Crowther Ave	Santa Fe Ave	30	32.8	35	30	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
46	Miraloma Ave	Van Buren St	Lakeview Ave	35	35.5	35	35	Closest to 85th percentile speed
47	Morse Ave	Kraemer Blvd	Venice Ave	30	32.1	30	30	Closest to 85th percentile speed
48	Orangethorpe Ave	Placentia Ave	Melrose St	40	42.5	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
49	Orangethorpe Ave	Melrose St	Kraemer Blvd	45	48.2	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
50	Orangethorpe Ave	City Limit	Rose Dr	45	49.1	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
51	Orangethorpe Ave	Rose Dr	Lakeview Ave	50	50.1	50	50	Closest to 85th percentile speed
52	Orchard Dr	Van Buren St	Richfield Rd	30	34.8	35	30	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
53	Orchard Dr	Richfield Rd	Highland Ave	35	37.6	40	35	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
54	Orchard Dr	Highland Ave	Lakeview Ave	35	33.0	35	35	Closest to 85th percentile speed
55	Palm Dr	Yorba Linda Blvd	Valencia Ave	40	42.6	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
56	Palm Dr	Valencia Ave	Rose Dr	45	47.0	45	45	Closest to 85th percentile speed

No.	Street Name	From	to	Existing Posted Speed Limit (mph)	85th % Speed (mph)	85th % Speed Rounded (mph)	Recommended Posted Speed (mph)	Reason for Recommended Speed Limit
57	Placentia Ave	South City Limit	City Limit	40	43.6	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
58	Placentia Ave	City Limit	Rolling Hills Rd	40	41.4	40	40	Closest to 85th percentile speed
59	Richfield Rd	North City Limit	South City Limit	45	48.4	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
60	Rose Dr	Orangethorpe Ave	Alta Vista St	45	49.2	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
61	Rose Dr	Alta Vista St	Palm Dr	45	48.0	50	45	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
62	Rose Dr	Palm Dr	City Limit	40	43.6	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
63	Rose Dr	City Limit	North City Limit	40	43.2	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
64	Santa Fe Ave	Placentia Ave	Murray St	35	35.3	35	35	Closest to 85th percentile speed
65	Santa Fe Ave	Murray St	Bradford Ave	25	27.9	30	25	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
66	Valencia Ave	Palm Dr	Yorba Linda Blvd	40	40.4	40	40	Closest to 85th percentile speed
67	Valencia Ave	Yorba Linda Blvd	Bastanchury Rd	40	43.4	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
68	Valencia Ave	Bastanchury Rd	Golden Ave	40	43.8	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed

No.	Street Name	From	to	Existing Posted Speed Limit (mph)	85th % Speed (mph)	85th % Speed Rounded (mph)	Recommended Posted Speed (mph)	Reason for Recommended Speed Limit
69	Valencia Ave	Golden Ave	North City Limit	40	43.8	45	40	Per CA MUTCD Option 2, rounded down to the nearest 5 mph increment below the 85th percentile speed
70	Van Buren St	South City Limit	Orangethorpe Ave	40	39.2	40	40	Closest to 85th percentile speed
71	Van Buren St	Orangethorpe Ave	North City Limit	40	41.8	40	40	Closest to 85th percentile speed
72	Yorba Linda Blvd	Bradford Ave	City Limit	40	42.3	40	40	Closest to 85th percentile speed
73	Yorba Linda Blvd	City Limit	Jefferson Ave	40	41.2	40	40	Closest to 85th percentile speed

2.0 INTRODUCTION

2.1 Purpose and Need for E&TS

The intent of this E&TS is to establish and review prima facie speed limit zones set on certain public roadways within the jurisdiction of the City of Placentia (City), including any responsibilities assumed under such Memoranda of Understandings (MOUs) which may exist between the City and adjacent or overlapping agencies. The speeds to be established comply with the laws of the State of California as enacted by the State Legislature and Governor, and as generally codified within the California Vehicle Code (CVC). The E&TS review process represents a fair and defensible exercise of public policy. The E&TS provides the primary venue for agencies to satisfy the duty of the State and cities to provide for general health, welfare, and safety of its residents through an engineering study of vehicular speeds within the constructed public right of way, when those speeds are not otherwise set by statute.

Through this process, the E&TS goal is to obtain voluntary compliance in appropriately determined speed limits by gaining public confidence in a fair process, while also considering overall roadway safety with limited need for regular enforcement. All users of the roadway and transportation modes are considered in this process, including but not limited to pedestrian, bicycle, and equestrian. The E&TS also satisfies the requirements set forth in CVC 40802, which defines a “speed trap”: a practice that is prohibited by State law whereby a speed limit is set arbitrarily low on streets other than streets classified as “local” streets. The E&TS, which is considered prima facie evidence in the prosecution of speed related violations, is used to refute a possible assertion by a potential violator that such a “speed trap” has been set by the agency. This E&TS meets the criteria set forth and establishes these local prima facie speed limits in compliance with CVC.

Local agencies should conduct engineering studies at least once every 5, 7 or 14 years, in compliance with CVC Section 40802 to reevaluate non-statutory speed limits on segments of their roadways that have undergone significant changes since the last review, such as the addition or elimination of parking or driveways, changes in the number of travel lanes changes in the configuration of bicycle lanes, changes in traffic control signal coordination, or significant changes in traffic volumes.

2.2 Study Locations

In coordination with the City of Placentia, it was determined that 73 segments were candidates for speed zone surveys.

3.0 E&TS METHODOLOGY

3.1 State and Federal Regulations and Policies

3.1.1 California Vehicle Code (CVC)

CVC provides the legal framework for the establishment of regulatory speeds on all roadways in California. These regulatory speeds fall into three categories:

- State statutory speed limits (discussed in CVC 22349); generally, 65 mph upon a highway, and 55 mph upon a two-lane, undivided highway; not required to be posted to be enforceable
- State prima facie speed limits established by statute (discussed in CVC 22352); generally, 15 mph for streets meeting certain criteria (e.g., traversing a railway grade crossing), and 25 mph for streets meeting certain criteria (e.g., a business or residence district, approaching a school building); generally must be posted to be enforceable
- Local prima facie speed limit zones (discussed in detail below); must always be posted to be enforceable

CVC provides cities and counties the ability to enact local prima facie speed limit zones within their jurisdictions. All speed limits must be set based on an engineering and traffic survey; otherwise, they may be considered a “speed trap”. Per CVC 40802, a “speed trap”, among other technical criteria for the measurement of speeds, is generally defined as follows:

40802. (a) A “speed trap” is either of the following:

(1) A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.

(2) A particular section of a highway with a prima facie speed limit that is provided by this code or by local ordinance under paragraph (1) of subdivision (b) of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within five years prior to the date of the alleged violation, and enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving objects. This paragraph does not apply to a local street, road, or school zone, business activity district, or speed limit adopted under Section 22358.7 or 22358.8.

(b) (1) For purposes of this section, a local street or road is one that is functionally classified as “local” on the “California Road System Maps,” that are approved by the Federal Highway Administration and maintained by the Department of Transportation. It may also be defined as a “local street or road” if it primarily provides access to abutting residential property and meets the following three conditions:

(A) Roadway width of not more than 40 feet.

(B) Not more than one-half of a mile of uninterrupted length. Interruptions shall include official traffic control signals as defined in Section 445.

(C) Not more than one traffic lane in each direction.

CVC 22357 and 22358 outline the corresponding options for applying state statute prima facie speed limits or establishing local prima facie speed limit zones:

22357. (a) Whenever a local authority determines upon the basis of an engineering and traffic survey that a speed greater than 25 miles per hour would facilitate the orderly movement of vehicular traffic and would be reasonable and safe upon any street other than a state highway otherwise subject to a prima facie limit of 25 miles per hour, the local authority may by ordinance determine and declare a prima facie speed limit of 30, 35, 40, 45, 50, 55, or 60 miles per hour or a maximum speed limit of 65 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe. The declared prima facie or maximum speed limit shall be effective when appropriate signs giving notice thereof are erected upon the street and shall not thereafter be revised except upon the basis of an engineering and traffic survey. This section does not apply to any 25-mile-per-hour prima facie limit which is applicable when passing a school building or the grounds thereof or when passing a senior center or other facility primarily used by senior citizens.

22358. (a) Whenever a local authority determines upon the basis of an engineering and traffic survey that the limit of 65 miles per hour is more than is reasonable or safe upon any portion of any street other than a state highway where the limit of 65 miles per hour is applicable, the local authority may by ordinance determine and declare a prima facie speed limit of 60, 55, 50, 45, 40, 35, 30, 25, 20 or 15 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe, which declared prima facie limit shall be effective when appropriate signs giving notice thereof are erected upon the street.

22358.3. Whenever a local authority determines upon the basis of an engineering and traffic survey that the prima facie speed limit of 25 miles per hour in a business or residence district or in a public park on any street having a roadway not exceeding 25 feet in width, other than a state highway, is more than is reasonable or safe, the local authority may, by ordinance or resolution, determine and declare a prima facie speed limit of 20 or 15 miles per hour, whichever is found most appropriate and is reasonable and safe. The declared prima facie limit shall be effective when appropriate signs giving notice thereof are erected upon the street.

22358.4. (a) (1) Whenever a local authority determines upon the basis of an engineering and traffic survey that the prima facie speed limit of 25 miles per hour established by subdivision (b) of Section 22352 is more than is reasonable or safe, the local authority may, by ordinance or resolution, determine and declare a prima facie speed limit of 20 or 15 miles per hour, whichever is justified as the appropriate speed limit by that survey.

(2) An ordinance or resolution adopted under paragraph (1) shall not be effective until appropriate signs giving notice of the speed limit are erected upon the highway and, in the case of a state highway, until the ordinance is approved by the Department of Transportation and the appropriate signs are erected upon the highway.

CVC defines an Engineering and Traffic Survey. Per CVC 627:

627. (a) "Engineering and traffic survey," as used in this code, means a survey of highway and traffic conditions in accordance with methods determined by the Department of Transportation for use by state and local authorities.

(b) An engineering and traffic survey shall include, among other requirements deemed necessary by the department, consideration of all of the following:

(1) Prevailing speeds as determined by traffic engineering measurements.

(2) Accident records.

(3) Highway, traffic, and roadside conditions not readily apparent to the driver.

(c) When conducting an engineering and traffic survey, local authorities, in addition to the factors set forth in paragraphs (1) to (3), inclusive, of subdivision (b) may consider all of the following:

(1) Residential density, if any of the following conditions exist on the particular portion of highway and the property contiguous thereto, other than a business district:

(A) Upon one side of the highway, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 13 or more separate dwelling houses or business structures.

(B) Upon both sides of the highway, collectively, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 16 or more separate dwelling houses or business structures.

(C) The portion of highway is longer than one-quarter of a mile but has the ratio of separate dwelling houses or business structures to the length of the highway described in either subparagraph (A) or (B).

(2) Safety of bicyclists and pedestrians, with increased consideration for vulnerable pedestrian groups including children, seniors, persons with disabilities, users of personal assistive mobility devices, and the unhoused.

Furthermore, CVC 22358.6 establishes how speed limits may be rounded to the nearest 5 mph increment of the 85th percentile speed measured as part of the E&TS

22358.6. (a) The Department of Transportation shall, in the next scheduled revision, revise and thereafter maintain the California Manual on Uniform Traffic Control Devices to require the Department of Transportation or a local authority to round speed limits to the nearest five miles per hour of the 85th percentile of the free-flowing traffic.

(b) In cases in which the speed limit needs to be rounded down to the nearest five miles per hour increment of the 85th-percentile speed, the Department of Transportation or a local authority may lower the speed limit by five miles per hour from the nearest five mile per hour increment of the 85th-percentile speed, in compliance with Sections 627 and 22358.5 and the California Manual on Uniform Traffic Control Devices, as it read on March 30, 2021, if the reasons for the lower speed limit are documented in an engineering and traffic survey. The Department of Transportation or a local authority may also take into consideration Sections 22353, 22353.2, 22353.3, 22353.4, and 22353.5, if applicable.

(c) In cases in which the speed limit needs to be rounded up to the nearest five miles per hour increment of the 85th-percentile speed, the Department of Transportation or a local authority may decide to instead round down the speed limit to the lower five miles per hour increment. If the speed limit is rounded down pursuant to this subdivision, the speed limit shall not be reduced any further pursuant to subdivision (b).

(d) In addition to subdivisions (b) and (c), a local authority may additionally lower the speed limit as provided in Section 22358.7.

(e) The total reduction in the speed limit pursuant to subdivisions (a) to (d), inclusive, shall not exceed 12.4 miles per hour from the 85th percentile speed.

(f) Notwithstanding subdivisions (a) to (e), inclusive, a local authority may retain the currently adopted speed limit as provided in Section 22358.8 without further reduction, or restore the immediately prior adopted speed limit as provided in Section 22358.8 without further reduction.

To prevent overuse of speed zoning practices by using CVC 627(b)(3) as justification to lower a prevailing speed, CVC 22358.5 requires that only conditions which may not be readily apparent to the driver can be used as justification for speed reduction.

22358.5. It is the intent of the Legislature that physical conditions such as width, curvature, grade and surface conditions, or any other condition readily apparent to a driver, in the absence of other factors, would not require special downward speed zoning, as the basic rule of section 22350 is sufficient regulation as to such conditions.

3.1.2 California Manual on Uniform Traffic Control Devices (CA MUTCD)

The *California MUTCD* provides guidance on the application of the E&TS defined in CVC, including a refined procedure for evaluation of local prima facie speed limit zones. The first step is to obtain prevailing speeds using 85th percentile spot speed measurements. Next, the 85th percentile measurements are rounded to the nearest 5-mph increment, except as shown in the two Options below:

- Option 1: For cases in which the nearest 5 mph increment of the 85th-percentile speed would require a rounding down, the posted speed may be reduced by 5 mph from the nearest 5 mph increment of the 85th-percentile speed, in compliance with CVC Sections 627 and 22358.5. CVC Sections 22353, 22353.2, 22353.3, 22353.4, and 22353.5, may also be considered, if applicable. See Standard below for documentation requirements. Refer to CVC Section 22358.6(b).
- Option 2: For cases in which the nearest 5 mph increment of the 85th-percentile speed would require a rounding up, then the speed limit may be rounded down to the nearest 5 mph increment below the 85th-percentile speed, if no further reduction is used. Refer to CVC 22358.6(c).

The California MUTCD Section 2B.13 states the following about the measurement of prevailing speeds:

Prevailing speeds are determined by a speed zone survey. A speed zone survey should include:

- A. The intent of the speed measurements is to determine the actual speed of unimpeded traffic. The speed of traffic should not be altered by concentrated law enforcement, or other means, just prior to, or while taking the speed measurements.*
- B. Only one person is required for the field work. Speeds should be read directly from a radar or other electronic speed measuring devices; or,*
- C. Devices, other than radar, capable of accurately distinguishing and measuring the unimpeded speed of free flowing vehicles may be used.*
- D. A location should be selected where prevailing speeds are representative of the entire speed zone section. If speeds vary on a given route, more than one speed zone section may be required, with separate measurements for each section. Locations for measurements should be chosen so as to minimize the effects of traffic signals or stop signs.*

- E. *Speed measurements should be taken during off-peak hours between peak traffic periods on weekdays. If there is difficulty in obtaining the desired quantity, speed measurements may be taken during any period with free flowing traffic.*
- F. *The weather should be fair (dry pavement) with no unusual conditions prevailing.*
- G. *The surveyor and equipment should not affect the traffic speeds. For this reason, an unmarked car is recommended, and the radar speed meter located as inconspicuously as possible.*
- H. *In order for the sample to be representative of the actual traffic flow, the minimum sample should be 100 vehicles in each survey. In no case should the sample contain less than 50 vehicles.*
- I. *Short speed zones of less than 0.5 miles should be avoided, except in transition areas.*
- J. *Speed zone changes should be coordinated with changes in roadway conditions or roadside development.*
- K. *Speed zoning should be in 10 mph increments except in urban areas where 5 mph increments are preferable.*
- L. *Speed zoning should be coordinated with adjacent jurisdictions.*

The California MUTCD Section 2B.13 provides Options about other factors to consider that may not be apparent to the driver, in compliance with CVC 22358.5 (line 16 and line 30, Section 2a):

Other factors that may be considered when establishing or reevaluating speed limits are the following:

- A. *Road characteristics, shoulder condition, grade, alignment, and sight distance;*
 - B. *The pace;*
 - C. *Roadside development and environment;*
 - D. *Parking practices and pedestrian activity; and*
 - E. *Reported crash experience for at least a 12-month period.*
2. *City and County Through Highways, Arterials, Collector Roads and Local Streets*
- a. *The short method of speed zoning is based on the premise that a reasonable speed limit is one that conforms to the actual behavior of the majority of motorists, and that by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Other factors that need to be considered include but are not limited to: the most recent two-year collision record, roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile conditions, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.*

3.1.3 Previous Studies

Caltrans Division of Traffic Operation has published a manual on a uniform procedure for setting speed limits in California. The manual titled "*California Manual for Setting Speed Limits 2020*" coincides with the guidelines outlined in the California MUTCD and is based upon statutes published in the CVC. The 85th percentile used in an E&TS is defined and justified as follows:

Speed limits set by E&TS are normally set near the 85th percentile speed. The 85th percentile speed is the speed at or below which 85 percent of the traffic is moving, and statistically represents one standard deviation above the average speed.

Studies of the effects of establishing, raising and lowering speed limits include federal studies FHWA-RD-92-084 and FHWA-RD-98-154 (summaries can be found in Appendix D.1 and the full reports can be found at the FHWA web site). These studies demonstrate that the most effective attribute in establishing the speed limit is to determine the 85th percentile speed and set the posted speed close to that value. The empirical data in these studies demonstrates that setting the speed limit too high or too low can increase collisions. Speed limits that are set near the 85th percentile speed of free flowing traffic are safer and produce less variance in vehicle speeds. Because of this, the 85th percentile is used to establish the upper limit of operating speeds that are considered reasonable and prudent.

3.2.6 Calculating 85th Percentile Speed

If 100 vehicle speeds are plotted, the 85th percentile speed is determined by looking at the speed of the 15th vehicle down from the top speed. Fifteen percent of the vehicles are travelling faster than this speed, and eighty five percent are travelling at or below this speed. If less than 100 vehicles are counted, the 85th percentile speed must be determined by calculating 85 percent of the number of vehicles counted and determining the vehicles' 85th percentile speed.

3.4.1 Zone Length

The length of any section of roadway set for a particular speed zone should be as long as possible and consistent with changes in roadway conditions, roadside development, and land use. Speed zone or speed limit changes need to be coordinated with changes in roadway conditions, roadside development, and land use. Speed zones of less than 0.5 miles should be avoided. Create separate speed zones at City, County or other jurisdictional boundaries with a consistent speed limit across the boundary.

The Federal Highway Administration published a review entitled *Synthesis of Safety Research Related to Speed and Speed Management, Publication Number: FHWA-RD-98-154 (July 1998)*. This publication built on a similar synthesis developed in 1982. The synthesis highlights the relationships among vehicle speed and safety; factors influencing speeds; and the effects on speed and crashes of speed limits, speed enforcement, traffic calming and other engineering measures intended to manage speed.

The review defined the 10-mph pace as the speed range that contains the largest percentage of vehicles. Crash history was also discussed in relation to prevailing speeds:

There is evidence that crash risk is lowest near the average speed of traffic and increases for vehicles traveling much faster or slower than average.

When the consequences of crashes are taken into account, the risk of being involved in an injury crash is lowest for vehicles that travel near the median speed or slower and increases exponentially for motorists traveling much faster.

In general, changing speed limits on low and moderate speed roads appears to have little or no effect on speed and thus little or no effect on crashes. This suggests that drivers travel at speeds that they feel are reasonable and safe for the road and traffic regardless of the posted limit.

The Federal Highway Administration also published a report entitled *"Effects of Raising and Lowering Speed Limits, Publication Number: FHWA-RD-92-084 (October 1992)"*. This report determined the

succeeding effects of raising and lowering posted speed limits on driver behavior and accidents. The following conclusion further illustrates the importance of conducting engineering investigations to consider prevailing speed, vehicle pace, and crash history to establish reasonable speed limits:

In other words, this nationwide study confirms the results of numerous other observational studies which found that the majority of motorists do not alter their speed to conform to speed limits they perceive as unreasonable for prevailing conditions.

Because there were few changes in the speed distribution, it is not surprising that the overall effects of speed limit changes on accidents were minor. It is interesting to note that compliance decreased when speed limits were lowered and accidents tended to increase. Conversely, when compliance improved after speed limits were raised, accidents tended to decrease.

The data collected during this study indicate that there are no benefits, either from a safety or operational point of view, from establishing speed limits less than the 85th percentile speed. This does not mean that all speed limits should be raised. Traffic and engineering investigations should be conducted to obtain an accurate measure of the speed distribution. Greater emphasis should be placed on using the 85th percentile speed in setting safe and reasonable speed limits. These studies should be repeated as land use and traffic characteristics change.

On December 19, 2023, a final rule adopting the 11th Edition of the Manual on Uniform Traffic Control Devices for Streets and Highways—the MUTCD—was published in the Federal Register. The new MUTCD puts less emphasis on 85th percentile rule but does not eliminate it. Section 2B.21 states:

08 When the 85th-percentile speed is appreciably greater than the posted speed limit, and the roadway context does not support setting a higher speed limit, the engineering study should consider whether changes to geometric features, enforcement, and/or other speed-reduction countermeasures might improve compliance with the posted speed limit. A similar approach should be used if the results of past speed studies indicate that the 85th-percentile speed has consistently increased.

09 On urban and suburban arterials, and on rural arterials that serve as main streets through developed areas of communities, the 85th-percentile speed should not be used to set speed limits without consideration of all factors described in Paragraph 7 of this Section.

California will have a 2-year period through January 18, 2026, to have a revised CA MUTCD in substantial conformance with the National MUTCD. California will continue to use the CA MUTCD 2014 Revision 8 until it is replaced with a newer version.

3.2 Data Collection

Data for the prevailing speed of vehicles, average daily traffic and traffic collisions were collected for the 73 speed zones.

3.2.1 Speed Survey

Aim Traffic Data (AimTD), a professional traffic data collection firm, conducted spot speed measurements at the E&TS locations from September 26, 2023 to November 14, 2023. The speed measurements at the E&TS locations were conducted using two calibrated radar devices, by two certified Radar Operators (Olga Polunin and Javier Correa). These devices directly measure the speed of vehicles and are

commonly used for spot speed measurements. A copy of the most recent certification of the radar equipment used is included in **Appendix A**.

To obtain free flowing (unimpeded) speeds at the study locations, the radar speed measurement procedure was conducted on a clear day during the non-peak hour period. The manual speed measurement procedure was conducted until at least 100 vehicles were surveyed at the study locations, or one hour for locations with low volumes. When possible, sample locations were outside of the influence area of stop signs or traffic signals.

The speed surveys provide 85th percentile speeds, the 50th percentile, the percent in pace, and vehicle 10-mph pace. The detailed results from the speed sampling procedure are attached in **Appendix B**.

3.2.2 Average Daily Traffic

AimTD collected 24-hour volume counts at each speed zone to provide measures of Average Daily Traffic (ADT) from December 6, 2023 to January 9, 2024. The ADT data is provided in **Table 3-1** and the detailed counts are provided in **Appendix C**.

3.2.3 Crash Data Calculation

City provided the 5-year collision summaries for all the streets throughout the City. This information was used in determining the crash rate in millions of vehicle miles (MVM). Since the crash data information was provided for each street and not for each speed zone, crash rates were calculated based on the highest ADT for the street when there are multiple speed zones on the same street.

The crash rate for each speed zone was calculated using the following formula:

$$\text{Crash Rate per Year} = \frac{\text{Number of crashes of the street in 5 years} \times 1,000,000}{\text{Highest ADT} \times \text{Length of segment of the street(mi)} \times 365 \text{ days per year} \times 5 \text{ years}}$$

The crash rates for speed zones in Placentia are provided in **Table 3-1** and the details are provided in **Appendix D**.

Statewide statistics for functional roadway classifications are provided and were obtained from the Caltrans website¹ for the 2021 reporting period. Crash rates on roadways that are higher than the statewide average are an indicator that a condition that is not readily apparent to the driver may exist on that particular segment.

¹ <https://dot.ca.gov/-/media/dot-media/programs/research-innovation-system-information/documents/annual-collision-data/2021crashdataoncs Hwybook1a11y.pdf> (accessed 1/25/24)

Table 3-1. 2024 Average Daily Traffic and Crash Rate Calculation

No.	Street Name	From	to	Average Daily Traffic	5-Year Total Collision by Roadway Segment	Crash Rate for Each Roadway Segment (MVM) ¹
1	All America Way	Alta Vista St	Chapman Ave	1,259	0	0.00
2	Alta Vista St	Angelina Dr	Kraemer Blvd	3,518	40	0.95
3	Alta Vista St	Kraemer Blvd	Rose Dr	11,767		
4	Alta Vista St	Rose Dr	Jefferson St	8,075		
5	Alta Vista St	Jefferson St	Van Buren St	4,546		
6	Angelina Dr	Chapman Ave	Alta Vista St	2,299	18	6.82
7	Angelina Dr	Morse Ave	Palm Dr	2,538		
8	Bastanchury Rd	West City Limit	Kraemer Blvd	24,664	80	0.88
9	Bastanchury Rd	Kraemer Blvd	Valencia Ave	20,195		
10	Bastanchury Rd	Valencia Ave	East City Limit	16,307		
11	Bradford Ave	Santa Fe Ave	Chapman Ave	4,209	59	2.27
12	Bradford Ave	Chapman Ave	Madison Ave	7,387		
13	Bradford Ave	Madison Ave	North City Limit	9,418		
14	Brookhaven Ave	Yorba Linda Blvd	Bastanchury Rd	1,617	2	1.36
15	Buena Vista Ave	Rose Dr	East City Limit	8,705	7	0.44
16	Central Ave	Chapman Ave	Alta Vista St	2,824	4	2.28
17	Chapman Ave	Placentia Ave	Kraemer Blvd	15,848	123	2.27
18	Chapman Ave	Kraemer Blvd	Orangethorpe Ave	6,847		
19	Crowther Ave	Placentia Ave	Porter Way	5,517	10	0.91
20	Crowther Ave	Porter Way	East City Limit	4,747		
21	Fee Ana St	South City Limit	North Terminus	2,063	1	0.38
22	Golden Ave	Kraemer Blvd	Valencia Ave	5,005	11	1.10
23	Golden Ave	Valencia Ave	East City Limit	3,967		
24	Highland Ave	Orangethorpe Ave	North City Limit	1,163	4	5.09
25	Jefferson Ave	South City Limit	Orangethorpe Ave	3,374	18	3.40
26	Jefferson Ave	Orangethorpe Ave	Alta Vista St	3,139		
27	Jefferson Ave	Alta Vista St	Garten Dr	754		
28	Kraemer Blvd	South City Limit	Orangethorpe Ave	20,353	113	1.02
29	Kraemer Blvd	Crowther Ave	Chapman Ave	19,000		
30	Kraemer Blvd	Chapman Ave	Fairway Lane	18,962		
31	Kraemer Blvd	Fairway Lane	Yorba Linda Blvd	21,279		

No.	Street Name	From	to	Average Daily Traffic	5-Year Total Collision by Roadway Segment	Crash Rate for Each Roadway Segment (MVM) ¹
32	Kraemer Blvd	Yorba Linda Blvd	Bastanchury Rd	18,436		
33	Kraemer Blvd	Bastanchury Rd	North City Limit	16,467		
34	La Jolla St	Placentia Ave	Melrose St	5,994	35	3.72
35	La Jolla St	Melrose St	East City Limit	4,664		
36	Lakeview Ave	South City Limit	North City Limit	14,439	8	0.76
37	Linda Vista St	Rose Dr	Yorba Linda Blvd	1,627	12	14.43
38	Livingston Ave	Clark Ave	Kraemer Blvd	864	1	1.32
39	Madison Ave	West City Limit	Kraemer Blvd	6,737	5	0.67
40	McCormack Lane	Yorba Linda Blvd	North City Limit	1,697	12	3.87
41	McCormack Lane	City Limit	Golden Ave	781		
42	Melrose St	South City Limit	La Jolla St	11,085	45	2.11
43	Melrose St	La Jolla St	Orangethorpe Ave	13,271		
44	Melrose St	Orangethorpe Ave	Crowther Ave	8,636		
45	Melrose St	Crowther Ave	Santa Fe Ave	6,375		
46	Miraloma Ave	Van Buren St	Lakeview Ave	4,702	9	2.69
47	Morse Ave	Kraemer Blvd	Venice Ave	1,256	5	3.46
48	Orangethorpe Ave	Placentia Ave	Melrose St	18,725	172	1.67
49	Orangethorpe Ave	Melrose St	Kraemer Blvd	18,700		
50	Orangethorpe Ave	City Limit	Rose Dr	16,087		
51	Orangethorpe Ave	Rose Dr	Lakeview Ave	16,146		
52	Orchard Dr	Van Buren St	Richfield Rd	2,989	9	1.85
53	Orchard Dr	Richfield Rd	Highland Ave	3,332		
54	Orchard Dr	Highland Ave	Lakeview Ave	2,417		
55	Palm Dr	Yorba Linda Blvd	Valencia Ave	8,534	27	1.28
56	Palm Dr	Valencia Ave	Rose Dr	10,356		
57	Placentia Ave	South City Limit	City Limit	15,766	166	1.87
58	Placentia Ave	City Limit	Rolling Hills Rd	18,715		
59	Richfield Rd	North City Limit	South City Limit	7,846	10	0.87

No.	Street Name	From	to	Average Daily Traffic	5-Year Total Collision by Roadway Segment	Crash Rate for Each Roadway Segment (MVM) ¹
60	Rose Dr	Orangethorpe Ave	Alta Vista St	23,957	88	0.77
61	Rose Dr	Alta Vista St	Palm Dr	31,583		
62	Rose Dr	Palm Dr	City Limit	19,875		
63	Rose Dr	City Limit	North City Limit	21,087		
64	Santa Fe Ave	Placentia Ave	Murray St	2,790	20	7.00
65	Santa Fe Ave	Murray St	Bradford Ave	2,952		
66	Valencia Ave	Palm Dr	Yorba Linda Blvd	6,211	33	1.24
67	Valencia Ave	Yorba Linda Blvd	Bastanchury Rd	10,228		
68	Valencia Ave	Bastanchury Rd	Golden Ave	9,229		
69	Valencia Ave	Golden Ave	North City Limit	7,899		
70	Van Buren St	South City Limit	Orangethorpe Ave	4,352	24	3.51
71	Van Buren St	Orangethorpe Ave	North City Limit	4,352		
72	Yorba Linda Blvd	Bradford Ave	City Limit	22,313	123	2.01
73	Yorba Linda Blvd	City Limit	Jefferson Ave	21,687		

¹ Crash rate was calculated based on the highest average daily traffic volumes of multiple speed zones.

4.0 CONCLUSIONS

In 2013, an E&TS was conducted for the City of Placentia. These speed zone recommendations were then used to set local prima facie speed zones and speed limits by ordinance of the City Council.

This E&TS confirms that the speed zones established in 2013 are still appropriate and should remain in effect. An E&TS sheet for each speed zone is provided in **Appendix E**. A complete summary of all recommendations was shown above in **Table 1-1**.

APPENDIX A

Equipment Certification

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT –

1. Javier Correa of AimTD LLC has successfully completed a course for Traffic Engineers on the operation of Traffic Radar and Laser devices. This training was accordance with Traffic and Engineering Speed Surveys as outlined in the California Vehicle Code and the Cal Trans Manual of Uniform Traffic Control Devices. This course is based upon the standards as outlined by the National Highway Traffic Safety Administration, California Commission on P.O.S.T. and Section 40802 of the California Vehicle Code.
2. Javier Correa completed the classroom instruction on operation and theory of Radar and Laser devices, case law, traffic and engineering surveys, the California Vehicle Code as well as the test, set-up, operation and identification of erroneous readings.
3. Javier Correa, in field settings demonstrated competence in the test and set-up of a Laser device, operation and trouble shooting of these devices and correct evaluation of readings provided by the device.
4. Javier Correa demonstrated competence in making visual speed estimations in actual field settings.
5. Javier Correa of AimTD is recognized for his competence as a Radar and Laser Operator this 8th day of August, 2022.


Steve Chauncey
P.O.S.T. Certified Radar/Laser Instructor

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT –

1. Olga Polunin of AimTD LLC has successfully completed a course for Traffic Engineers on the operation of Radar devices in application with Traffic and Engineering Speed Surveys as outlined in the California Vehicle Code and the Manual of Uniform Traffic Control Devices. This course is based upon the standards as outlined by the National Highway Traffic Safety Administration, California Commission on P.O.S.T standards and Section 40802 of the California Vehicle Code.
2. Olga Polunin completed the classroom instruction on operation and theory of Radar devices, case law, traffic and engineering surveys, the California Vehicle Code as well as the test, set-up, operation and identification of erroneous readings.
3. Olga Polunin, in field settings demonstrated competence in the test and set-up of a radar device, operation and trouble shooting of the device and correct evaluation of readings provided by the device.
4. Olga Polunin demonstrated competence in making visual speed estimations in actual field settings.
5. Olga Polunin of AimTD LLC is recognized for her competence as a Radar Operator this 20th day of June, 2016.



Steve Chauncey
P.O.S.T. Certified Radar Instructor

SOUTHERN CALIFORNIA RADAR/LASER CERTIFICATION LABORATORY

P.O. Box 2397
Borrego Springs, CA 92004

I certify that the Decatur Genesis VP Handheld Directional Radar, Serial Number 03202 was tested on July 14, 2022 and was calibrated to be within the Manufacturers specifications for accuracy and stability.

- Unit meets or exceeds the NHTSA standards for accuracy.
- Unit is listed on the IACP Conforming Product List.
- Unit tests meet or exceed the standards set forth in cvc 40802().

Test Results

Test	Min	Max	Read	Pass
Visual/Function	-	-	-	Yes
Tuning Fork Frequency	-.5%	+5%	+0.00	Yes
Radar Device Tuning Fork s/n 282445 & 39148	-1MPH	+1MPH	35 – 2568 Hz	Yes
Microwave Frequency – K-Band	-100MHz	+100MHz	24.127GHz	Yes
Radiated Output Power Variation	-1.5dB	+1.5dB	+0.05	Yes
Antenna Horizontal Bandwidth K-Band	-	15°	14°	Yes
Low Voltage Supply	-	10.8V	10.4	Yes
Accuracy-Stationary Mode	-2MPH	+1MPH	0	Yes
RFI tests			Null	Yes
Temperature sens.	-10° F.	+150° F.	Null	Yes
Target Channel Sensitivity	<10dB (35-90 MPH)		2.9dB	Yes
Antenna Near Field Maximum Power Density		0 dBm/cm ²	-9.5dBm/cm ²	Yes
25 MPH	-2MPH	+1MPH	25 MPH	Yes
50 MPH	-2MPH	+1MPH	50 MPH	Yes
65 MPH	-2MPH	+1MPH	65 MPH	Yes

This unit was thoroughly tested for accuracy using NHTSA and Manufacturers test methods with equipment specifically designed and built to ensure precision measurements under controlled conditions. This unit passed all applicable tests and is hereby certified to operate within the manufacturer's specifications and to conform to NHTSA standards to be accurate in the measurement of the speed of any vehicle.

The original of this document has an embossed seal over the signature.

I certify (or declare) under the penalty of perjury under the laws of the state of California that the foregoing is true and correct.

By: William F. Dunable Date: July 14, 2022
William F. Dunable, MS/CIS, FCC Lic. # PG-11SD-2354

Serving Law Enforcement Since 1995
www.SoCalRadar-laserCertificationLab.com

SOUTHERN CALIFORNIA RADAR/LASER CERTIFICATION LABORATORY

P.O. Box 2397
Borrego Springs, CA 92004

I certify that the Decatur Genesis VP Handheld Directional Radar, Serial Number 02559 was tested on July 14, 2022 and was calibrated to be within the Manufacturers specifications for accuracy and stability.

- Unit meets or exceeds the NHTSA standards for accuracy.
- Unit is listed on the IACP Conforming Product List.
- Unit tests meet or exceed the standards set forth in cvc 40802().

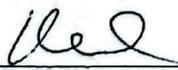
Test Results

Test	Min	Max	Read	Pass
Visual/Function	-	-	-	Yes
Tuning Fork Frequency	-.5%	+.5%	+1.00	Yes
Radar Device Tuning Fork s/n 282445 & 39148	-1MPH	+1MPH	35 - 2568 Hz	Yes
Microwave Frequency - K-Band	-100MHz	+100MHz	24.127GHz	Yes
Radiated Output Power Variation	-1.5dB	+1.5dB	+0.05	Yes
Antenna Horizontal Bandwidth K-Band	-	15°	14°	Yes
Low Voltage Supply	-	10.8V	10.4	Yes
Accuracy-Stationary Mode	-2MPH	+1MPH	0	Yes
RFI tests			Null	Yes
Temperature sens.	-10° F.	+150° F.	Null	Yes
Target Channel Sensitivity	<10dB (35-90 MPH)		2.9dB	Yes
Antenna Near Field Maximum Power Density		0 dBm/cm ²	-9.5dBm/cm ²	Yes
25 MPH	-2MPH	+1MPH	25 MPH	Yes
50 MPH	-2MPH	+1MPH	50 MPH	Yes
65 MPH	-2MPH	+1MPH	65 MPH	Yes

This unit was thoroughly tested for accuracy using NHTSA and Manufacturers test methods with equipment specifically designed and built to ensure precision measurements under controlled conditions. This unit passed all applicable tests and is hereby certified to operate within the manufacturer's specifications and to conform to NHTSA standards to be accurate in the measurement of the speed of any vehicle.

The original of this document has an embossed seal over the signature.

I certify (or declare) under the penalty of perjury under the laws of the state of California that the foregoing is true and correct.

By:  Date: July 14, 2022
William F. Dunable, MS/CIS, FCC Lic. # PG-11SD-2354

Serving Law Enforcement Since 1995
www.SoCalRadar-laserCertificationLab.com

APPENDIX B

Speed Survey

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed2 Alta Visa St from Angelina Dr to Kraemer Blvd.

DATE: 10/12/2023

TIME PERIOD : 9:05 AM TO 10:05 AM

Speed2 Alta Visa St from Angelina Dr to Kraemer Blvd.

LIMITS (BTN):
 OBSERVER: Olga P.
 WEATHER: SUNNY
 POSTED SPEED LIMIT: 25 MPH
 ROAD SURFACE: DRY
 COMMENTS: ROAD CONDITION: GOOD
 ROAD SEGMENT LENGTH:
 ACCIDENT HISTORY: 0.00
 ACCIDENT RATE: 0
 EXPECTED RATE: 0
 PROPOSED SPEED LIMIT: 0
 ADT: 0
 LANES PER DIRECTION:
 STREET WIDTH (ft.):
 DATA COLLECTION METHOD: RADAR
 DEVELOPMENT:

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
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44	0	0	44														0	
43	0	0	43														0	
42	0	0	42														0	
41	0	0	41														0	
40	0	0	40														0	
39	0	0	39														0	
38	0	0	38														0	
37	0	0	37														0	
36	0	0	36														0	
35	1	0	35														1	
34	0	0	34														0	
33	2	1	33														3	
32	1	1	32														3	
31	1	2	31														3	
30	1	2	30														3	
29	2	3	29														5	
28	6	5	28														11	
27	4	4	27														8	
26	6	7	26														13	
25	8	9	25														17	
24	6	6	24														12	
23	6	7	23														13	
22	4	3	22														7	
21	2	1	21														3	
20	2	0	20														2	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	
	52	51														103		

85TH %:	29.2	28.8	29.0	M.P.H.
50TH %:	25.7	25.9	25.8	M.P.H.
15TH %:	22.2	23.0	22.6	M.P.H.
10 MPH PACE:	20 - 29	22 - 31	22 - 31	M.P.H.
% IN PACE:	88%	94%	89%	
% OVER PACE:	12%	4%	6%	
% UNDER PACE:	0%	2%	5%	
ARITHMETIC MEAN:	25.69	25.90	25.80	M.P.H.
SAMPLE VARIANCE:	11.16	7.73	9.38	
STANDARD DEVIATION:	3.34	2.78	3.06	M.P.H.
VARIANCE OF THE MEAN:	0.21	0.15	0.09	
STD. ERROR OF THE MEAN:	0.46	0.39	0.30	M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI.)= 0.00
 # OF ACC.= 0

LOCATION: Speed3 Alta Visa St from Kraemer Blvd to Rose Dr.

DATE: 10/3/2023

TIME PERIOD : 2:14 PM TO 2:29 PM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
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56	0	0	56														0	
55	0	0	55														0	
54	0	1	54														1	
53	1	0	53														1	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	2	1	48														3	
47	2	1	47														3	
46	2	6	46														8	
45	4	5	45														9	
44	2	0	44														2	
43	3	4	43														7	
42	6	2	42														8	
41	4	5	41														9	
40	6	7	40														13	
39	3	4	39														7	
38	5	5	38														10	
37	4	2	37														6	
36	2	2	36														4	
35	0	3	35														3	
34	0	2	34														2	
33	2	0	33														2	
32	3	3	32														6	
31	0	0	31														0	
30	1	0	30														1	
29	2	0	29														2	
28	0	0	28														0	
27	0	0	27														0	
26	0	0	26														0	
25	0	0	25														0	
24	1	0	24														1	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN): Speed3 Alta Visa St from Kraemer Blvd to Rose Dr.

POSTED SPEED LIMIT: 45 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Javier C.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (ft.):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	45.5	45.4	45.4 M.P.H.
50TH %:	39.8	40.6	40.2 M.P.H.
15TH %:	34.1	35.9	34.9 M.P.H.
10 MPH PACE:	37 - 46	37 - 46	37 - 46 M.P.H.
% IN PACE:	71%	75%	73%
% OVER PACE:	9%	6%	7%
% UNDER PACE:	20%	19%	19%
ARITHMETIC MEAN:	39.80	40.60	40.19 M.P.H.
SAMPLE VARIANCE:	30.20	21.01	25.62
STANDARD DEVIATION:	5.50	4.58	5.06 M.P.H.
VARIANCE OF THE MEAN:	0.55	0.40	0.24
STD. ERROR OF THE MEAN:	0.74	0.63	0.49 M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed8 Bastanchury Rd from Kraemer Blvd to West City Limit.

DATE: 9/26/2023

TIME PERIOD : 9:15 AM TO 9:40 AM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	1	0	55	X													1	
54	1	0	54	X													1	
53	0	1	53	X													1	
52	1	0	52	X													1	
51	0	2	51	X	X												2	
50	0	2	50	X	X												2	
49	1	1	49	X	X												2	
48	1	3	48	X	X	X											4	
47	2	2	47	X	X	X											4	
46	1	0	46	X													1	
45	1	0	45	X													1	
44	1	2	44	X	X												3	
43	3	1	43	X	X	X											4	
42	3	1	42	X	X	X											4	
41	2	2	41	X	X	X											4	
40	3	0	40	X	X	X											3	
39	3	2	39	X	X	X	X										5	
38	6	3	38	X	X	X	X	X									9	
37	6	5	37	X	X	X	X	X	X								11	
36	4	5	36	X	X	X	X	X	X								9	
35	3	5	35	X	X	X	X	X	X								8	
34	3	3	34	X	X	X	X	X	X								6	
33	2	3	33	X	X	X	X	X	X								5	
32	0	4	32	X	X	X	X	X	X								4	
31	0	2	31	X	X												2	
30	2	2	30	X	X	X	X										4	
29	1	3	29	X	X	X	X										4	
28	1	2	28	X	X	X	X										3	
27	0	0	27	X	X												0	
26	0	0	26														0	
25	0	0	25														0	
24	0	0	24														0	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed8 Bastanchury Rd from Kraemer Blvd to West City Limit.
POSTED SPEED LIMIT:	45 MPH
COMMENTS:	
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
ADT:	0
OBSERVER:	Javier C.
WEATHER:	SUNNY
ROAD SURFACE:	DRY
ROAD CONDITION:	GOOD
ROAD SEGMENT LENGTH:	
LANES PER DIRECTION:	
STREET WIDTH (ft.):	
DATA COLLECTION METHOD:	RADAR
DEVELOPMENT:	

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	45.5	45.0	M.P.H.
50TH %:	39.3	37.9	M.P.H.
15TH %:	33.2	30.8	M.P.H.
10 MPH PACE:	34 - 43	29 - 38	M.P.H.
% IN PACE:	69%	63%	59%
% OVER PACE:	19%	34%	25%
% UNDER PACE:	12%	4%	16%
ARITHMETIC MEAN:	39.33	37.91	38.59
SAMPLE VARIANCE:	35.17	46.77	41.31
STANDARD DEVIATION:	5.93	6.84	6.43
VARIANCE OF THE MEAN:	0.68	0.84	0.38
STD. ERROR OF THE MEAN:	0.82	0.91	0.62

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI.)= 0.00
 # OF ACC.= 0

LOCATION: Speed11 Bradford Ave from Santa Fe Ave to Chapman Ave.

DATE: 10/24/2023

TIME PERIOD : 9:58 AM TO 10:38 AM

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED		NB	SB	TOTAL VEHICLES
				NB	SB			
65	0	0	65			0	0	0
64	0	0	64			0	0	0
63	0	0	63			0	0	0
62	0	0	62			0	0	0
61	0	0	61			0	0	0
60	0	0	60			0	0	0
59	0	0	59			0	0	0
58	0	0	58			0	0	0
57	0	0	57			0	0	0
56	0	0	56			0	0	0
55	0	0	55			0	0	0
54	0	0	54			0	0	0
53	0	0	53			0	0	0
52	0	0	52			0	0	0
51	0	0	51			0	0	0
50	0	0	50			0	0	0
49	0	0	49			0	0	0
48	0	0	48			0	0	0
47	0	0	47			0	0	0
46	0	0	46			0	0	0
45	0	0	45			0	0	0
44	0	0	44			0	0	0
43	0	0	43			0	0	0
42	0	0	42			0	0	0
41	0	0	41			0	0	0
40	0	0	40			0	0	0
39	0	0	39			0	0	0
38	0	0	38			0	0	0
37	0	0	37			0	0	0
36	0	0	36			0	0	0
35	0	0	35			0	0	0
34	0	0	34			0	0	0
33	0	0	33			0	0	0
32	4	2	32	X	X	4	2	6
31	1	2	31	X	X	1	2	3
30	1	0	30	X		1	0	1
29	1	0	29	X		1	0	1
28	2	0	28	X		2	0	2
27	4	1	27	X	X	4	1	5
26	3	5	26	X	X	3	5	8
25	2	7	25	X	X	2	7	9
24	7	9	24	X	X	7	9	16
23	5	7	23	X	X	5	7	12
22	4	3	22	X	X	4	3	7
21	6	6	21	X	X	6	6	12
20	2	2	20	X	X	2	2	4
19	3	5	19	X	X	3	5	8
18	3	1	18	X	X	3	1	4
17	0	0	17			0	0	0
16	2	2	16	X	X	2	2	4
15	0	0	15			0	0	0

LIMITS (BTN): Speed11 Bradford Ave from Santa Fe Ave to Chapman Ave. OBSERVER: Olga P.

POSTED SPEED LIMIT: 25 MPH WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH: ROAD COLLECTION METHOD: RADAR

ACCIDENT HISTORY: 0.00 LANES PER DIRECTION: STREET WIDTH (FT.):

ACCIDENT RATE: 0 DATA COLLECTION METHOD: RADAR

EXPECTED RATE: 0 DEVELOPMENT:

PROPOSED SPEED LIMIT: 0

ADT: 0

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+SOUTHBOUND
85TH %:	28.5	27.0	27.7
50TH %:	24.0	23.3	23.6
15TH %:	19.5	19.7	19.5
10 MPH PACE:	18 - 27	18 - 27	18 - 27
% IN PACE:	76%	88%	83%
% OVER PACE:	20%	8%	14%
% UNDER PACE:	4%	4%	4%
ARITHMETIC MEAN:	23.98	23.31	23.64
SAMPLE VARIANCE:	18.94	12.37	15.59
STANDARD DEVIATION:	4.35	3.52	3.95
VARIANCE OF THE MEAN:	0.37	0.24	0.15
STD. ERROR OF THE MEAN:	0.61	0.49	0.39

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed12 Bradford Ave from Chapman Ave to Madison Ave.

DATE: 10/5/2023

TIME PERIOD : 12:50 PM TO 1:40 PM

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												NB	SB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	0	0	44														0	
43	0	0	43														0	
42	0	0	42														0	
41	0	0	41														0	
40	0	0	40														0	
39	0	0	39														0	
38	0	1	38														0	
37	2	1	37														3	
36	2	3	36														5	
35	3	1	35														4	
34	3	5	34														8	
33	2	3	33														5	
32	13	12	32														25	
31	3	2	31														5	
30	9	6	30														15	
29	3	1	29														4	
28	4	2	28														6	
27	3	6	27														9	
26	0	2	26														2	
25	0	2	25														2	
24	3	2	24														5	
23	0	1	23														1	
22	0	1	22														1	
21	0	0	21														0	
20	1	0	20														1	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed12 Bradford Ave from Chapman Ave to Madison Ave.
POSTED SPEED LIMIT:	30 MPH
COMMENTS:	
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
ADT:	0

85TH %:	34.2	34.4	34.3	M.P.H.
50TH %:	30.6	30.5	30.5	M.P.H.
15TH %:	26.9	26.6	26.7	M.P.H.
10 MPH PACE:	27 - 36	27 - 36	27 - 36	M.P.H.
% IN PACE:	85%	80%	83%	
% OVER PACE:	4%	4%	4%	
% UNDER PACE:	11%	16%	13%	
ARITHMETIC MEAN:	30.57	30.49	30.53	M.P.H.
SAMPLE VARIANCE:	12.56	14.41	13.34	
STANDARD DEVIATION:	3.54	3.80	3.65	M.P.H.
VARIANCE OF THE MEAN:	0.24	0.28	0.13	
STD. ERROR OF THE MEAN:	0.49	0.53	0.36	M.P.H.

NORTHBOUND SOUTHBOUND NORTHBOUND+Southbound

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed19 Crowther Ave from Placentia Ave to Porter Way.

DATE: 11/14/2023

TIME PERIOD : 9:00 AM TO 9:35 AM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	1	0	44	X													1	
43	0	2	43	X	X												2	
42	0	2	42	X	X												2	
41	0	3	41	X	X	X											3	
40	0	0	40														0	
39	2	0	39	X	X												2	
38	2	2	38	X	X	X											4	
37	3	2	37	X	X	X	X										5	
36	4	4	36	X	X	X	X	X									8	
35	4	4	35	X	X	X	X	X									8	
34	1	11	34	X	X	X	X	X	X								12	
33	3	1	33	X	X	X	X	X	X								4	
32	9	8	32	X	X	X	X	X	X	X							17	
31	5	2	31	X	X	X	X	X	X	X							7	
30	8	3	30	X	X	X	X	X	X	X							11	
29	4	0	29	X	X	X											4	
28	1	2	28	X	X	X											3	
27	2	1	27	X	X	X											3	
26	1	0	26	X	X												1	
25	1	0	25	X													1	
24	0	0	24														0	
23	0	1	23	X													1	
22	1	1	22	X	X												2	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed19 Crowther Ave from Placentia Ave to Porter Way.
POSTED SPEED LIMIT:	40 MPH
COMMENTS:	
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
ADT:	0

OBSERVER:	Javier C.
WEATHER:	SUNNY
ROAD SURFACE:	DRY
ROAD CONDITION:	GOOD
ROAD SEGMENT LENGTH:	
LANES PER DIRECTION:	
STREET WIDTH (ft.):	
DATA COLLECTION METHOD:	RADAR
DEVELOPMENT:	

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	36.5	39.2	37.9 M.P.H.
50TH %:	32.3	34.3	33.3 M.P.H.
15TH %:	28.2	29.4	28.6 M.P.H.
10 MPH PACE:	29 - 38	30 - 39	29 - 38 M.P.H.
% IN PACE:	83%	74%	78%
% OVER PACE:	6%	16%	11%
% UNDER PACE:	12%	10%	11%
ARITHMETIC MEAN:	32.31	34.30	33.28 M.P.H.
SAMPLE VARIANCE:	15.98	22.62	20.05
STANDARD DEVIATION:	4.00	4.76	4.48 M.P.H.
VARIANCE OF THE MEAN:	0.31	0.45	0.20
STD. ERROR OF THE MEAN:	0.55	0.67	0.44 M.P.H.

City of Placentia

DIST.(MI)= 0.00
OF ACC.= 0

LOCATION: Speed22 Golden Ave from Kraemer Blvd to Valencia Ave.

DATE: 9/26/2023

TIME PERIOD : 1:18 PM TO 1:47 PM

SPEED	EB	WB	(MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	1	0	52														1	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	2	1	47														3	
46	1	1	46														2	
45	3	2	45														5	
44	0	4	44														4	
43	3	3	43														6	
42	8	6	42														14	
41	1	0	41														1	
40	4	9	40														13	
39	2	2	39														4	
38	4	4	38														8	
37	6	6	37														12	
36	4	3	36														7	
35	2	3	35														5	
34	3	4	34														7	
33	3	2	33														5	
32	3	0	32														3	
31	2	2	31														4	
30	0	2	30														2	
29	0	1	29														1	
28	0	0	28														0	
27	0	0	27														0	
26	0	0	26														0	
25	0	0	25														0	
24	0	0	24														0	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed22 Golden Ave from Kraemer Blvd to Valencia Ave.	Observer:	Javier C.
POSTED SPEED LIMIT:	40 MPH	Weather:	SUNNY
COMMENTS:		Road Surface:	DRY
		Road Condition:	GOOD
ACCIDENT HISTORY:	0.00	Road Segment Length:	
ACCIDENT RATE:	0	Lanes per Direction:	
EXPECTED RATE:	0	Street Width (ft.):	
PROPOSED SPEED LIMIT:	0	Data Collection Method:	RADAR
ADT:	0	Development:	

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	43.7	43.9	43.8 M.P.H.
50TH %:	38.8	39.1	39.0 M.P.H.
15TH %:	33.9	34.4	34.2 M.P.H.
10 MPH PACE:	34 - 43	35 - 44	34 - 43 M.P.H.
% IN PACE:	71%	73%	72%
% OVER PACE:	13%	11%	16%
% UNDER PACE:	15%	16%	12%
ARITHMETIC MEAN:	38.81	39.15	38.98 M.P.H.
SAMPLE VARIANCE:	22.24	20.61	21.23
STANDARD DEVIATION:	4.72	4.54	4.61 M.P.H.
VARIANCE OF THE MEAN:	0.43	0.37	0.20
STD. ERROR OF THE MEAN:	0.65	0.61	0.45 M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI.)= 0.00
 # OF ACC.= 0

LOCATION: Speed23 Golden Ave from Valencia Ave to East City Limit.

DATE: 9/28/2023

TIME PERIOD : 10:35 AM TO 11:15 AM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED										TOTAL VEHICLES	
				1	2	3	4	5	6	7	8	9	10		
65	0	0	65												0
64	0	0	64												0
63	0	0	63												0
62	0	0	62												0
61	0	0	61												0
60	0	0	60												0
59	0	0	59												0
58	0	0	58												0
57	0	0	57												0
56	0	0	56												0
55	0	0	55												0
54	0	0	54												0
53	0	0	53												0
52	0	0	52												0
51	0	0	51												0
50	0	0	50												0
49	0	0	49												0
48	0	0	48												0
47	0	0	47												0
46	0	0	46												0
45	0	0	45												0
44	0	0	44												0
43	1	0	43												1
42	1	0	42												1
41	2	1	41												3
40	1	0	40												1
39	2	2	39												4
38	4	2	38												6
37	2	2	37												4
36	7	4	36												11
35	7	6	35												13
34	4	5	34												9
33	4	6	33												10
32	5	7	32												12
31	2	0	31												2
30	3	3	30												6
29	2	4	29												6
28	1	1	28												2
27	0	1	27												1
26	2	1	26												3
25	0	1	25												1
24	0	0	24												0
23	0	0	23												0
22	0	0	22												0
21	0	0	21												0
20	1	0	20												1
19	0	0	19												0
18	0	0	18												0
17	0	0	17												0
16	0	0	16												0
15	0	0	15												0

LIMITS (BTN):	Speed23 Golden Ave from Valencia Ave to East City Limit.
POSTED SPEED LIMIT:	35 MPH
COMMENTS:	
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
ADT:	0

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	38.7	38.5	38.6 M.P.H.
50TH %:	34.2	34.1	34.2 M.P.H.
15TH %:	29.7	29.7	29.7 M.P.H.
10 MPH PACE:	30 - 39	29 - 38	29 - 38 M.P.H.
% IN PACE:	78%	77%	78%
% OVER PACE:	10%	15%	15%
% UNDER PACE:	12%	8%	8%
ARITHMETIC MEAN:	34.24	34.12	34.17 M.P.H.
SAMPLE VARIANCE:	18.86	18.22	18.36
STANDARD DEVIATION:	4.34	4.27	4.29 M.P.H.
VARIANCE OF THE MEAN:	0.37	0.35	0.18
STD. ERROR OF THE MEAN:	0.61	0.59	0.42 M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed24 Highland Ave from Orangethorpe Ave to North City Limit.

DATE: 10/17/2023

TIME PERIOD : 1:50 PM TO 2:50 PM

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												NB	SB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	0	0	44														0	
43	0	0	43														0	
42	0	0	42														0	
41	0	0	41														0	
40	0	0	40														0	
39	0	0	39														0	
38	0	0	38														0	
37	0	0	37														0	
36	0	0	36														0	
35	0	0	35														0	
34	1	0	34														1	
33	1	1	33														2	
32	12	0	32														12	
31	3	1	31														4	
30	9	4	30														13	
29	7	3	29														10	
28	5	4	28														9	
27	2	2	27														4	
26	2	7	26														9	
25	3	5	25														8	
24	2	6	24														8	
23	1	8	23														9	
22	1	3	22														4	
21	1	4	21														5	
20	0	1	20														1	
19	0	1	19														1	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN): Speed24 Highland Ave from Orangethorpe Ave to North City Limit.

POSTED SPEED LIMIT: 30 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Javier C.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (ft.):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+ SOUTHBOUND
85TH %:	32.2	28.5	30.9 M.P.H.
50TH %:	29.0	25.2	M.P.H.
15TH %:	25.9	22.0	M.P.H.
10 MPH PACE:	24 - 33	21 - 30	23 - 32 M.P.H.
% IN PACE:	92%	92%	86%
% OVER PACE:	2%	4%	3%
% UNDER PACE:	6%	4%	11%
ARITHMETIC MEAN:	29.04	25.22	27.13 M.P.H.
SAMPLE VARIANCE:	9.14	9.93	13.12
STANDARD DEVIATION:	3.02	3.15	3.62 M.P.H.
VARIANCE OF THE MEAN:	0.18	0.20	0.13
STD. ERROR OF THE MEAN:	0.43	0.45	0.36 M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed36 Lakeview Ave from South City Limit to Orangethorpe Ave.

DATE: 10/18/2023

TIME PERIOD : 1:20 PM TO 1:43 PM

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												NB	SB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	2	54														2	
53	2	1	53														3	
52	1	5	52														6	
51	0	1	51														1	
50	2	1	50														3	
49	1	1	49														2	
48	4	1	48														5	
47	2	0	47														2	
46	6	5	46														11	
45	4	5	45														9	
44	3	2	44														5	
43	2	4	43														6	
42	4	1	42														5	
41	1	0	41														1	
40	3	3	40														6	
39	2	1	39														3	
38	4	4	38														8	
37	4	2	37														6	
36	2	4	36														6	
35	2	1	35														3	
34	0	1	34														1	
33	0	0	33														0	
32	2	1	32														3	
31	0	3	31														3	
30	0	2	30														2	
29	0	0	29														0	
28	0	0	28														0	
27	0	0	27														0	
26	0	0	26														0	
25	0	0	25														0	
24	0	0	24														0	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed36 Lakeview Ave from South City Limit to Orangethorpe Ave.
POSTED SPEED LIMIT:	45 MPH
COMMENTS:	
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
ADT:	0

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+ SOUTHBOUND
85TH %:	48.1	49.5	48.8 M.P.H.
50TH %:	42.4	42.3	42.4 M.P.H.
15TH %:	36.7	35.1	35.9 M.P.H.
10 MPH PACE:	37 - 46	37 - 46	37 - 46 M.P.H.
% IN PACE:	62%	53%	58%
% OVER PACE:	23%	24%	23%
% UNDER PACE:	15%	24%	19%
ARITHMETIC MEAN:	42.38	42.33	42.36 M.P.H.
SAMPLE VARIANCE:	30.35	48.27	38.76
STANDARD DEVIATION:	5.51	6.95	6.23 M.P.H.
VARIANCE OF THE MEAN:	0.57	0.95	0.37
STD. ERROR OF THE MEAN:	0.76	0.97	0.61 M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed37 Linda Vista St from Rose Dr to Yorba Linda Blvd.

DATE: 10/19/2023

TIME PERIOD : 1:14 PM TO 1:53 PM

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED										NB	SB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10			
60	0	0	60													
59	0	0	59													
58	0	0	58													
57	0	0	57													
56	0	0	56													
55	0	0	55													
54	0	0	54													
53	0	0	53													
52	0	0	52													
51	0	0	51													
50	0	0	50													
49	0	0	49													
48	0	0	48													
47	0	0	47													
46	0	0	46													
45	0	0	45													
44	0	0	44													
43	0	0	43													
42	1	2	42													
41	0	0	41													
40	0	1	40													
39	1	0	39													
38	0	2	38													
37	0	0	37													
36	0	2	36													
35	2	2	35													
34	0	0	34													
33	1	4	33													
32	4	3	32													
31	2	2	31													
30	3	4	30													
29	6	3	29													
28	3	4	28													
27	3	0	27													
26	2	4	26													
25	7	3	25													
24	1	2	24													
23	4	4	23													
22	2	0	22													
21	2	3	21													
20	4	4	20													
19	2	0	19													
18	0	1	18													
17	0	0	17													
16	0	0	16													
15	0	0	15													
14	0	0	14													
13	0	0	13													
12	0	0	12													
11	0	0	11													
10	0	0	10													

LIMITS (BTN): Speed37 Linda Vista St from Rose Dr to Yorba Linda Blvd.

POSTED SPEED LIMIT: 35 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Javier C.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (ft):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+ SOUTHBOUND
85TH %:	32.3	34.9	33.6
50TH %:	27.0	28.6	27.8
15TH %:	21.7	22.3	22.0
10 MPH PACE:	23 - 32	24 - 33	23 - 32
% IN PACE:	70%	58%	64%
% OVER PACE:	10%	18%	18%
% UNDER PACE:	20%	24%	18%
ARITHMETIC MEAN:	27.00	28.62	27.81
SAMPLE VARIANCE:	25.88	36.85	31.71
STANDARD DEVIATION:	5.09	6.07	5.63
VARIANCE OF THE MEAN:	0.52	0.74	0.32
STD. ERROR OF THE MEAN:	0.72	0.86	0.56

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+ SOUTHBOUND
85TH %:	32.3	34.9	33.6
50TH %:	27.0	28.6	27.8
15TH %:	21.7	22.3	22.0
10 MPH PACE:	23 - 32	24 - 33	23 - 32
% IN PACE:	70%	58%	64%
% OVER PACE:	10%	18%	18%
% UNDER PACE:	20%	24%	18%
ARITHMETIC MEAN:	27.00	28.62	27.81
SAMPLE VARIANCE:	25.88	36.85	31.71
STANDARD DEVIATION:	5.09	6.07	5.63
VARIANCE OF THE MEAN:	0.52	0.74	0.32
STD. ERROR OF THE MEAN:	0.72	0.86	0.56

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed39 Madison Ave from West City Limit to Kraemer Blvd.

DATE: 10/5/2023

TIME PERIOD : 1:50 PM TO 2:13 PM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	0	1	44	X													1	
43	0	1	43	X													1	
42	0	0	42														0	
41	2	2	41	X	X	X											4	
40	3	6	40	X	X	X	X	X	X								9	
39	1	1	39	X	X												2	
38	3	3	38	X	X	X	X	X									6	
37	6	5	37	X	X	X	X	X	X								11	
36	5	6	36	X	X	X	X	X	X								11	
35	4	5	35	X	X	X	X	X	X								9	
34	6	3	34	X	X	X	X	X	X								9	
33	4	3	33	X	X	X	X	X									7	
32	2	4	32	X	X	X	X										6	
31	4	3	31	X	X	X	X	X	X								7	
30	6	3	30	X	X	X	X	X	X								9	
29	1	2	29	X	X												3	
28	3	1	28	X	X	X											4	
27	0	1	27	X	X	X											1	
26	0	0	26														0	
25	1	0	25	X													1	
24	0	0	24														0	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed39 Madison Ave from West City Limit to Kraemer Blvd.	
POSTED SPEED LIMIT:	35 MPH	
COMMENTS:		
ACCIDENT HISTORY:	0.00	
ACCIDENT RATE:	0	
EXPECTED RATE:	0	
PROPOSED SPEED LIMIT:	0	
ADT:	0	

OBSERVER:	Javier C.
WEATHER:	SUNNY
ROAD SURFACE:	DRY
ROAD CONDITION:	GOOD
ROAD SEGMENT LENGTH:	
LANES PER DIRECTION:	
STREET WIDTH (ft.):	
DATA COLLECTION METHOD:	RADAR
DEVELOPMENT:	

85TH %:	38.0	39.4	38.7	M.P.H.
50TH %:	34.1	35.3	34.7	M.P.H.
15TH %:	30.2	31.1	30.6	M.P.H.
10 MPH PACE:	30 - 39	31 - 40	29 - 38	M.P.H.
% IN PACE:	80%	78%	77%	
% OVER PACE:	10%	8%	17%	
% UNDER PACE:	10%	14%	6%	
ARITHMETIC MEAN:	34.10	35.26	34.67	M.P.H.
SAMPLE VARIANCE:	14.29	16.16	15.40	
STANDARD DEVIATION:	3.78	4.02	3.92	M.P.H.
VARIANCE OF THE MEAN:	0.28	0.32	0.15	
STD. ERROR OF THE MEAN:	0.53	0.57	0.39	M.P.H.

City of Placentia

DIST.(MI.)= 0.00
OF ACC.= 0

DATE: 10/24/2023

TIME PERIOD : 1:56 PM TO 2:56 PM

LOCATION: Speed40 McCormack Ln from Yorba Linda Blvd to City Limit (north of Yorba Linda Blvd).

LIMITS (BTN): Speed40 McCormack Ln from Yorba Linda Blvd to City Limit (north of Yorba Linda Blvd).

POSTED SPEED LIMIT: 30 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Olga P.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (FT.):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED		TOTAL VEHICLES
				NB	SB	
65	0	0		0	0	0
64	0	0		0	0	0
63	0	0		0	0	0
62	0	0		0	0	0
61	0	0		0	0	0
60	0	0		0	0	0
59	0	0		0	0	0
58	0	0		0	0	0
57	0	0		0	0	0
56	0	0		0	0	0
55	0	0		0	0	0
54	0	0		0	0	0
53	0	0		0	0	0
52	0	0		0	0	0
51	0	0		0	0	0
50	0	0		0	0	0
49	0	0		0	0	0
48	0	0		0	0	0
47	0	0		0	0	0
46	0	0		0	0	0
45	0	0		0	0	0
44	0	0		0	0	0
43	0	0		0	0	0
42	0	0		0	0	0
41	0	0		0	0	0
40	0	0		0	0	0
39	0	0		0	0	0
38	0	0		0	0	0
37	2	0		X	X	2
36	1	0		X	X	1
35	1	0		X	X	1
34	0	0		X	X	0
33	0	0		X	X	0
32	3	0		X	X	3
31	0	0		X	X	0
30	2	0		X	X	2
29	2	0		X	X	2
28	6	0		X	X	6
27	10	0		X	X	10
26	5	3		X	X	8
25	8	8		X	X	16
24	5	16		X	X	21
23	5	6		X	X	11
22	0	1		X	X	1
21	0	1		X	X	1
20	0	1		X	X	1
19	0	0		X	X	0
18	0	0		X	X	0
17	0	0		X	X	0
16	0	0		X	X	0
15	0	0		X	X	0
				50	52	102

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+SOUTHBOUND
50TH %:	27.2	25.2	26.1
15TH %:	23.5	22.3	22.7
10 MPH PACE:	23 - 32	19 - 28	23 - 32
% IN PACE:	92%	94%	90%
% OVER PACE:	8%	6%	6%
% UNDER PACE:	0%	0%	4%
ARITHMETIC MEAN:	27.18	25.15	26.15
SAMPLE VARIANCE:	12.80	7.39	10.98
STANDARD DEVIATION:	3.58	2.72	3.31
VARIANCE OF THE MEAN:	0.26	0.14	0.11
STD. ERROR OF THE MEAN:	0.51	0.38	0.33

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI.)= 0.00
 # OF ACC.= 0

LOCATION: Speed43 Melrose St from La Jolla St to Orangethorpe Ave.

DATE: 9/28/2023

TIME PERIOD : 3:05 PM TO 3:38 PM

SPEED	NB	SB	TOTAL VEHICLES SURVEYED		TOTAL VEHICLES
			NB	SB	
65	0	0	0	0	0
64	0	0	0	0	0
63	0	0	0	0	0
62	0	0	0	0	0
61	0	0	0	0	0
60	0	0	0	0	0
59	0	0	0	0	0
58	0	0	0	0	0
57	0	0	0	0	0
56	0	0	0	0	0
55	0	0	0	0	0
54	0	0	0	0	0
53	0	0	0	0	0
52	0	0	0	0	0
51	0	0	0	0	0
50	0	0	0	0	0
49	0	0	0	0	0
48	0	0	0	0	0
47	0	0	0	0	0
46	0	0	0	0	0
45	0	0	0	0	0
44	1	0	1	0	1
43	1	0	1	0	1
42	0	0	0	0	0
41	2	0	2	0	2
40	5	4	5	4	9
39	4	3	4	3	7
38	2	2	2	2	4
37	4	6	4	6	10
36	7	7	7	7	14
35	6	5	6	5	11
34	7	6	7	6	13
33	5	3	5	3	8
32	4	2	4	2	6
31	3	4	3	4	7
30	2	3	2	3	5
29	5	3	5	3	8
28	1	2	1	2	3
27	0	2	0	2	2
26	0	1	0	1	1
25	0	0	0	0	0
24	0	0	0	0	0
23	0	0	0	0	0
22	0	0	0	0	0
21	0	0	0	0	0
20	0	0	0	0	0
19	0	0	0	0	0
18	0	0	0	0	0
17	0	0	0	0	0
16	0	0	0	0	0
15	0	0	0	0	0

LIMITS (BTN): Speed43 Melrose St from La Jolla St to Orangethorpe Ave.
 OBSERVER: Olga P.
 WEATHER: SUNNY
 ROAD SURFACE: DRY
 ROAD CONDITION: GOOD
 ROAD SEGMENT LENGTH:
 LANES PER DIRECTION:
 STREET WIDTH (FT.):
 DATA COLLECTION METHOD: RADAR
 DEVELOPMENT:
 ACCIDENT HISTORY: 0.00
 ACCIDENT RATE: 0
 EXPECTED RATE: 0
 PROPOSED SPEED LIMIT: 0
 ADT: 0

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+SOUTHBOUND
85TH %:	39.0	38.9	38.9
50TH %:	35.1	34.6	34.8
15TH %:	31.1	30.2	30.7
10 MPH PACE:	31 - 40	31 - 40	31 - 40
% IN PACE:	80%	75%	77%
% OVER PACE:	7%	5%	6%
% UNDER PACE:	14%	20%	17%
ARITHMETIC MEAN:	35.05	34.55	34.81
SAMPLE VARIANCE:	14.43	17.71	15.95
STANDARD DEVIATION:	3.80	4.21	3.99
VARIANCE OF THE MEAN:	0.24	0.32	0.14
STD. ERROR OF THE MEAN:	0.49	0.56	0.37

City of Placentia

DATA ENTRY COLUMNS
 DIST. (MI.) = 0.00
 # OF ACC. = 0

LOCATION: Speed48 Orangethorpe Ave from Placentia Ave to Melrose St.

DATE: 9/28/2023

TIME PERIOD : 9:00 AM TO 9:30 AM

SPEED	EB	WB	TOTAL VEHICLES SURVEYED		TOTAL VEHICLES
			EB	WB	
65	0	0	0	0	0
64	0	0	0	0	0
63	0	0	0	0	0
62	0	0	0	0	0
61	0	0	0	0	0
60	0	0	0	0	0
59	0	0	0	0	0
58	0	0	0	0	0
57	0	0	0	0	0
56	0	0	0	0	0
55	0	0	0	0	0
54	0	0	0	0	0
53	0	0	0	0	0
52	0	1	0	1	1
51	0	0	0	0	0
50	0	2	0	2	2
49	1	1	1	1	2
48	1	1	1	1	2
47	3	1	3	1	4
46	2	0	2	0	2
45	3	4	3	4	7
44	4	3	4	3	7
43	3	5	3	5	8
42	5	2	5	2	7
41	4	3	4	3	7
40	5	8	5	8	13
39	8	7	8	7	15
38	7	5	7	5	12
37	2	6	2	6	8
36	5	6	5	6	11
35	3	7	3	7	10
34	4	5	4	5	9
33	5	5	5	5	10
32	5	6	5	6	11
31	8	7	8	7	15
30	6	4	6	4	10
29	5	4	5	4	9
28	6	2	6	2	8
27	4	4	4	4	8
26	0	3	0	3	3
25	1	0	1	0	1
24	0	0	0	0	0
23	0	0	0	0	0
22	0	0	0	0	0
21	0	0	0	0	0
20	0	0	0	0	0
19	0	0	0	0	0
18	0	0	0	0	0
17	0	0	0	0	0
16	0	0	0	0	0
15	0	0	0	0	0

LIMITS (BTN): Speed48 Orangethorpe Ave from Placentia Ave to Melrose St. Observer: Olga P.
 POSTED SPEED LIMIT: 40 MPH WEATHER: CLEAR
 COMMENTS: ROAD SURFACE: DRY
 ROAD CONDITION: GOOD
 ROAD SEGMENT LENGTH:
 ACCIDENT HISTORY: 0.00 LANES PER DIRECTION:
 ACCIDENT RATE: 0 STREET WIDTH (FT.):
 EXPECTED RATE: 0 DATA COLLECTION METHOD: RADAR
 PROPOSED SPEED LIMIT: 0 DEVELOPMENT:
 ADT: 0

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	42.4	42.7	42.5
50TH %:	36.2	36.5	36.3
15TH %:	29.9	30.2	30.1
10 MPH PACE:	30 - 39	31 - 40	31 - 40
% IN PACE:	53%	61%	56%
% OVER PACE:	31%	23%	24%
% UNDER PACE:	16%	17%	19%
ARITHMETIC MEAN:	36.16	36.45	36.31
SAMPLE VARIANCE:	36.52	35.85	36.02
STANDARD DEVIATION:	6.04	5.99	6.00
VARIANCE OF THE MEAN:	0.37	0.35	0.18
STD. ERROR OF THE MEAN:	0.60	0.59	0.42

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
65			
64			
63			
62			
61			
60			
59			
58			
57			
56			
55			
54			
53			
52	X		X
51			
50	X		X
49	X		X
48	X		X
47	X		X
46	X		X
45	X		X
44	X		X
43	X		X
42	X		X
41	X		X
40	X		X
39	X		X
38	X		X
37	X		X
36	X		X
35	X		X
34	X		X
33	X		X
32	X		X
31	X		X
30	X		X
29	X		X
28	X		X
27	X		X
26	X		X
25	X		X
24	X		X
23	X		X
22	X		X
21	X		X
20	X		X
19	X		X
18	X		X
17	X		X
16	X		X
15	X		X

City of Placentia

DATA ENTRY COLUMNS

DIST. (MI.) = 0.00

OF ACC. = 0

LOCATION: Speed49 Orangethorpe Ave from Melrose St to Kraemer Blvd.

DATE: 9/27/2023

TIME PERIOD : 11:00 AM TO 11:28 AM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												TOTAL VEHICLES	
				1	2	3	4	5	6	7	8	9	10	11	12		
65	0	0	65														0
64	0	0	64														0
63	0	0	63														0
62	0	0	62														0
61	0	0	61														0
60	0	0	60														0
59	0	0	59														0
58	0	0	58														0
57	0	0	57														0
56	1	0	56														1
55	0	0	55														0
54	2	1	54														3
53	1	0	53														1
52	2	0	52														2
51	1	2	51														3
50	3	2	50														5
49	1	1	49														2
48	8	9	48														17
47	12	10	47														22
46	9	8	46														17
45	6	9	45														15
44	7	6	44														13
43	5	7	43														12
42	6	6	42														12
41	8	9	41														17
40	1	1	40														2
39	1	3	39														4
38	7	4	38														11
37	8	6	37														14
36	3	3	36														6
35	3	3	35														6
34	1	5	34														7
33	1	3	33														4
32	3	2	32														5
31	0	2	31														2
30	0	1	30														1
29	2	1	29														3
28	1	1	28														2
27	0	0	27														0
26	0	0	26														0
25	0	0	25														0
24	0	0	24														0
23	0	0	23														0
22	0	0	22														0
21	0	0	21														0
20	0	0	20														0
19	0	0	19														0
18	0	0	18														0
17	0	0	17														0
16	0	0	16														0
15	0	0	15														0

LIMITS (BTN):	Speed49 Orangethorpe Ave from Melrose St to Kraemer Blvd.
OBSERVER:	Olga P.
WEATHER:	SUNNY
ROAD SURFACE:	DRY
ROAD CONDITION:	GOOD
ROAD SEGMENT LENGTH:	
LANES PER DIRECTION:	
STREET WIDTH (FT.):	
DATA COLLECTION METHOD:	RADAR
DEVELOPMENT:	
ADT:	0
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
POSTED SPEED LIMIT:	45 MPH
COMMENTS:	

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
50TH %:	42.8	41.8	42.3
15TH %:	36.8	35.9	36.3
10 MPH PACE:	41 - 50	39 - 48	41 - 50
% IN PACE:	63%	64%	63%
% OVER PACE:	7%	6%	5%
% UNDER PACE:	30%	30%	32%
ARITHMETIC MEAN:	42.81	41.76	42.28
SAMPLE VARIANCE:	33.79	32.03	33.01
STANDARD DEVIATION:	5.81	5.66	5.75
VARIANCE OF THE MEAN:	0.33	0.30	0.16
STD. ERROR OF THE MEAN:	0.57	0.55	0.40

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed52 Orchard Dr from Van Buren St to Richfield Rd.

DATE: 10/17/2023

TIME PERIOD : 3:18 PM TO 3:46 PM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	1	0	46														1	
45	0	0	45														0	
44	0	0	44														0	
43	0	0	43														0	
42	0	0	42														0	
41	0	0	41														0	
40	0	2	40														2	
39	0	2	39														2	
38	0	2	38														2	
37	0	0	37														0	
36	3	1	36														4	
35	1	3	35														4	
34	3	4	34														7	
33	2	1	33														3	
32	6	8	32														14	
31	5	3	31														8	
30	5	5	30														10	
29	2	4	29														6	
28	5	8	28														13	
27	2	3	27														5	
26	6	4	26														10	
25	4	0	25														4	
24	2	1	24														3	
23	2	0	23														2	
22	0	0	22														0	
21	0	0	21														0	
20	1	0	20														1	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed52 Orchard Dr from Van Buren St to Richfield Rd.	30	MPH
POSTED SPEED LIMIT:		30	MPH
COMMENTS:			
ACCIDENT HISTORY:	0.00		
ACCIDENT RATE:	0		
EXPECTED RATE:	0		
PROPOSED SPEED LIMIT:	0		
ADT:	0		

OBSERVER:	Javier C.
WEATHER:	SUNNY
ROAD SURFACE:	DRY
ROAD CONDITION:	GOOD
ROAD SEGMENT LENGTH:	
LANES PER DIRECTION:	
STREET WIDTH (ft.):	
DATA COLLECTION METHOD:	RADAR
DEVELOPMENT:	

85TH %:	34.2	35.4	34.8	M.P.H.
50TH %:	29.5	31.2	30.4	M.P.H.
15TH %:	24.9	27.1	25.9	M.P.H.
10 MPH PACE:	25 - 34	26 - 35	26 - 35	M.P.H.
% IN PACE:	80%	84%	79%	
% OVER PACE:	10%	14%	11%	
% UNDER PACE:	10%	2%	10%	
ARITHMETIC MEAN:	29.52	31.22	30.38	M.P.H.
SAMPLE VARIANCE:	19.97	15.93	18.48	
STANDARD DEVIATION:	4.47	3.99	4.30	M.P.H.
VARIANCE OF THE MEAN:	0.40	0.31	0.18	
STD. ERROR OF THE MEAN:	0.63	0.56	0.43	M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed53 Orchard Dr from Richfield Rd to Highland Ave.

DATE: 10/5/2023

TIME PERIOD : 11:05 AM TO 12:05 PM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	1	0	44	X													1	
43	0	0	43														0	
42	1	0	42	X													1	
41	1	1	41	X	X												2	
40	0	2	40		X	X											2	
39	1	1	39	X	X												2	
38	2	1	38	X	X	X											3	
37	4	2	37	X	X	X	X										6	
36	3	2	36	X	X	X	X										5	
35	5	2	35	X	X	X	X	X									7	
34	3	4	34	X	X	X	X	X									7	
33	2	1	33	X	X	X											3	
32	1	4	32	X	X	X	X										5	
31	3	4	31	X	X	X	X	X									7	
30	3	5	30	X	X	X	X	X	X								8	
29	4	2	29	X	X	X	X	X									6	
28	1	2	28	X	X	X											3	
27	0	1	27	X	X												1	
26	1	2	26	X	X	X											3	
25	2	0	25	X	X												2	
24	0	1	24	X	X												1	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	
	38	37															75	

LIMITS (BTN): Speed53 Orchard Dr from Richfield Rd to Highland Ave.

POSTED SPEED LIMIT: 35 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Javier C.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (ft):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	38.3	36.8	37.6 M.P.H.
50TH %:	33.6	32.5	33.0 M.P.H.
15TH %:	28.9	28.1	28.5 M.P.H.
10 MPH PACE:	29 - 38	28 - 37	29 - 38 M.P.H.
% IN PACE:	79%	76%	76%
% OVER PACE:	11%	14%	11%
% UNDER PACE:	11%	11%	13%
ARITHMETIC MEAN:	33.58	32.49	33.04 M.P.H.
SAMPLE VARIANCE:	20.52	17.70	19.17
STANDARD DEVIATION:	4.53	4.21	4.38 M.P.H.
VARIANCE OF THE MEAN:	0.54	0.48	0.26
STD. ERROR OF THE MEAN:	0.73	0.69	0.51 M.P.H.

City of Placentia

DIST.(MI)= 0.00
OF ACC.= 0

LOCATION: Speed54 Orchard Dr from Highland Ave to Lakeview Ave.

DATE: 10/17/2023

TIME PERIOD : 12:35 PM TO 1:35 PM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	0	0	44														0	
43	1	0	43	X												1	0	
42	0	0	42														0	
41	0	0	41														0	
40	0	0	40														0	
39	0	0	39														0	
38	0	0	38														0	
37	1	1	37	XX												2	2	
36	2	1	36	XX												3	0	
35	0	0	35														0	
34	3	0	34	XXX												3	0	
33	3	0	33	XXX												3	0	
32	5	6	32	XXXX												11	6	
31	1	4	31	XXXX												5	4	
30	6	5	30	XXXX												11	5	
29	7	9	29	XXXX												16	9	
28	6	10	28	XXXX												16	10	
27	2	3	27	XXXX												5	3	
26	6	3	26	XXXX												9	3	
25	4	0	25	XXXX												4	0	
24	1	1	24	XX												2	1	
23	1	1	23	XX												2	1	
22	1	2	22	XX												3	2	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN): Speed54 Orchard Dr from Highland Ave to Lakeview Ave.

POSTED SPEED LIMIT: 35 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Javier C.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (ft):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	33.6	32.4	33.0
50TH %:	29.5	29.2	29.4
15TH %:	25.4	26.1	25.7
10 MPH PACE:	25 - 34	24 - 33	25 - 34
% IN PACE:	86%	90%	87%
% OVER PACE:	8%	4%	6%
% UNDER PACE:	6%	6%	7%
ARITHMETIC MEAN:	29.48	29.24	29.36
SAMPLE VARIANCE:	15.64	9.33	12.37
STANDARD DEVIATION:	3.96	3.05	3.52
VARIANCE OF THE MEAN:	0.31	0.19	0.12
STD. ERROR OF THE MEAN:	0.56	0.43	0.35

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed55 Palm Dr from Yorba Linda Blvd to Valencia Ave.

DATE: 10/12/2023

TIME PERIOD : 9:27 AM TO 9:50 AM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	1	2	47	X	X	X											3	
46	0	1	46	X													1	
45	2	0	45	X	X												2	
44	3	1	44	X	X	X											4	
43	2	5	43	X	X	X	X	X	X	X	X	X	X	X	X	X	7	
42	7	7	42	X	X	X	X	X	X	X	X	X	X	X	X	X	14	
41	1	0	41	X													1	
40	5	3	40	X	X	X	X	X	X	X	X	X	X	X	X	X	8	
39	3	3	39	X	X	X	X	X	X	X	X	X	X	X	X	X	6	
38	3	5	38	X	X	X	X	X	X	X	X	X	X	X	X	X	8	
37	3	3	37	X	X	X	X	X	X	X	X	X	X	X	X	X	6	
36	5	7	36	X	X	X	X	X	X	X	X	X	X	X	X	X	12	
35	4	2	35	X	X	X	X	X	X	X	X	X	X	X	X	X	6	
34	3	4	34	X	X	X	X	X	X	X	X	X	X	X	X	X	7	
33	2	4	33	X	X	X	X	X	X	X	X	X	X	X	X	X	6	
32	2	2	32	X	X	X	X	X	X	X	X	X	X	X	X	X	4	
31	1	2	31	X	X	X											3	
30	2	0	30	X	X												2	
29	2	1	29	X	X	X											3	
28	0	0	28														0	
27	0	0	27														0	
26	0	0	26														0	
25	0	1	25														1	
24	0	0	24	X													0	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed55 Palm Dr from Yorba Linda Blvd to Valencia Ave.	Observer:	Javier C.
POSTED SPEED LIMIT:	40 MPH	Weather:	SUNNY
COMMENTS:		Road Surface:	DRY
		Road Condition:	GOOD
ACCIDENT HISTORY:	0.00	Road Segment Length:	
ACCIDENT RATE:	0	Lanes per Direction:	
EXPECTED RATE:	0	Street Width (ft.):	
PROPOSED SPEED LIMIT:	0	Data Collection Method:	RADAR
ADT:	0	Development:	

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
P 85TH %:	42.6	42.6	M.P.H.
A 50TH %:	37.9	37.8	M.P.H.
C 15TH %:	33.2	32.9	M.P.H.
E 10 MPH PACE:	35 - 44	34 - 43	M.P.H.
% IN PACE:	71%	74%	72%
% OVER PACE:	6%	8%	10%
% UNDER PACE:	24%	19%	18%
ARITHMETIC MEAN:	37.90	37.75	37.83
SAMPLE VARIANCE:	20.97	22.00	21.29
STANDARD DEVIATION:	4.58	4.69	4.61
VARIANCE OF THE MEAN:	0.41	0.42	0.20
STD. ERROR OF THE MEAN:	0.64	0.64	0.45

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed59 Richfield Rd from North City Limit to South City Limit.

DATE: 10/17/2023

TIME PERIOD : 3:00 PM TO 3:15 PM

SPEED	NB	SB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												NB	SB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
65	0	0	65														0	
64	0	0	64														0	
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	1	0	56														1	
55	0	0	55														0	
54	1	1	54														2	
53	0	0	53														0	
52	2	1	52														3	
51	2	0	51														2	
50	2	1	50														3	
49	3	1	49														4	
48	1	0	48														1	
47	1	4	47														5	
46	5	6	46														11	
45	1	4	45														5	
44	5	7	44														12	
43	8	2	43														10	
42	4	8	42														12	
41	2	2	41														4	
40	1	4	40														5	
39	0	3	39														3	
38	5	0	38														5	
37	3	2	37														5	
36	1	3	36														4	
35	0	1	35														1	
34	1	1	34														2	
33	0	0	33														0	
32	0	1	32														1	
31	0	0	31														0	
30	1	0	30														1	
29	0	0	29														0	
28	0	0	28														0	
27	1	0	27														1	
26	0	0	26														0	
25	0	0	25														0	
24	0	0	24														0	
23	0	0	23														0	
22	0	0	22														0	
21	0	0	21														0	
20	0	0	20														0	
19	0	0	19														0	
18	0	0	18														0	
17	0	0	17														0	
16	0	0	16														0	
15	0	0	15														0	

LIMITS (BTN):	Speed59 Richfield Rd from North City Limit to South City Limit.
POSTED SPEED LIMIT:	45 MPH
COMMENTS:	
ACCIDENT HISTORY:	0.00
ACCIDENT RATE:	0
EXPECTED RATE:	0
PROPOSED SPEED LIMIT:	0
ADT:	0

	NORTHBOUND	SOUTHBOUND	NORTHBOUND+ SOUTHBOUND
85TH %:	49.4	47.3	48.4 M.P.H.
50TH %:	43.4	42.7	43.1 M.P.H.
15TH %:	37.4	38.1	37.7 M.P.H.
10 MPH PACE:	37 - 46	39 - 48	38 - 47 M.P.H.
% IN PACE:	67%	77%	70%
% OVER PACE:	25%	8%	16%
% UNDER PACE:	8%	15%	15%
ARITHMETIC MEAN:	43.43	42.71	43.07 M.P.H.
SAMPLE VARIANCE:	33.61	19.78	26.50
STANDARD DEVIATION:	5.80	4.45	5.15 M.P.H.
VARIANCE OF THE MEAN:	0.66	0.38	0.26
STD. ERROR OF THE MEAN:	0.81	0.62	0.51 M.P.H.

City of Placentia

DATA ENTRY COLUMNS
 DIST.(MI)= 0.00
 # OF ACC.= 0

LOCATION: Speed64 Santa Fe Ave from Placentia Ave to Murray St.

DATE: 10/12/2023

TIME PERIOD : 11:45 AM TO 12:11 PM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES	
				1	2	3	4	5	6	7	8	9	10	11	12				
65	0	0	65														0		
64	0	0	64														0		
63	0	0	63														0		
62	0	0	62														0		
61	0	0	61														0		
60	0	0	60														0		
59	0	0	59														0		
58	0	0	58														0		
57	0	0	57														0		
56	0	0	56														0		
55	0	0	55														0		
54	0	0	54														0		
53	0	0	53														0		
52	0	0	52														0		
51	0	0	51														0		
50	0	0	50														0		
49	0	0	49														0		
48	0	0	48														0		
47	0	0	47														0		
46	0	0	46														0		
45	0	0	45														0		
44	0	0	44														0		
43	0	0	43														0		
42	0	0	42														0		
41	1	0	41														1		
40	0	1	40														1		
39	0	1	39														1		
38	3	1	38														4		
37	2	3	37														5		
36	3	3	36														6		
35	1	3	35														4		
34	5	4	34														9		
33	3	1	33														4		
32	5	8	32														13		
31	2	2	31														4		
30	0	6	30														6		
29	6	4	29														10		
28	7	5	28														12		
27	4	4	27														8		
26	5	3	26														8		
25	3	2	25														5		
24	1	0	24														1		
23	1	0	23														1		
22	0	0	22														0		
21	0	0	21														0		
20	0	0	20														0		
19	0	0	19														0		
18	0	0	18														0		
17	0	0	17														0		
16	0	0	16														0		
15	0	0	15														0		
																	52	51	103

LIMITS (BTN): Speed64 Santa Fe Ave from Placentia Ave to Murray St.

POSTED SPEED LIMIT: 35 MPH

COMMENTS:

ACCIDENT HISTORY: 0.00

ACCIDENT RATE: 0

EXPECTED RATE: 0

PROPOSED SPEED LIMIT: 0

ADT: 0

OBSERVER: Javier C.

WEATHER: SUNNY

ROAD SURFACE: DRY

ROAD CONDITION: GOOD

ROAD SEGMENT LENGTH:

LANES PER DIRECTION:

STREET WIDTH (ft.):

DATA COLLECTION METHOD: RADAR

DEVELOPMENT:

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	35.1	35.4	35.3
50TH %:	30.6	31.4	31.0
15TH %:	26.1	27.4	26.7
10 MPH PACE:	25 - 34	27 - 36	25 - 34
% IN PACE:	77%	78%	77%
% OVER PACE:	19%	12%	21%
% UNDER PACE:	4%	10%	2%
ARITHMETIC MEAN:	30.63	31.37	31.00
SAMPLE VARIANCE:	18.86	14.88	16.86
STANDARD DEVIATION:	4.34	3.86	4.11
VARIANCE OF THE MEAN:	0.36	0.29	0.16
STD. ERROR OF THE MEAN:	0.60	0.54	0.40

City of Placentia

DATA ENTRY COLUMNS
DIST.(MI)= 0.00
OF ACC.= 0

LOCATION: Speed65 Santa Fe Ave from Murray St to Bradford Ave.

DATE: 10/12/2023

TIME PERIOD : 10:50 AM TO 11:20 AM

SPEED	EB	WB	SPEED (MPH)	TOTAL VEHICLES SURVEYED												EB	WB	TOTAL VEHICLES
				1	2	3	4	5	6	7	8	9	10	11	12			
63	0	0	63														0	
62	0	0	62														0	
61	0	0	61														0	
60	0	0	60														0	
59	0	0	59														0	
58	0	0	58														0	
57	0	0	57														0	
56	0	0	56														0	
55	0	0	55														0	
54	0	0	54														0	
53	0	0	53														0	
52	0	0	52														0	
51	0	0	51														0	
50	0	0	50														0	
49	0	0	49														0	
48	0	0	48														0	
47	0	0	47														0	
46	0	0	46														0	
45	0	0	45														0	
44	0	0	44														0	
43	0	0	43														0	
42	0	0	42														0	
41	0	0	41														0	
40	0	0	40														0	
39	0	0	39														0	
38	0	0	38														0	
37	0	0	37														0	
36	0	0	36														0	
35	0	0	35														0	
34	1	0	34	X													1	
33	0	0	33														0	
32	2	0	32	X	X												2	
31	0	0	31														0	
30	3	2	30	X	X	X	X										5	
29	2	1	29	X	X	X	X										4	
28	3	2	28	X	X	X	X										5	
27	4	7	27	X	X	X	X	X	X								11	
26	3	6	26	X	X	X	X	X	X								9	
25	4	3	25	X	X	X	X	X	X								7	
24	8	7	24	X	X	X	X	X	X	X	X						16	
23	4	5	23	X	X	X	X	X	X	X	X						9	
22	3	4	22	X	X	X	X	X	X	X	X						7	
21	2	1	21	X	X	X	X	X	X	X	X						3	
20	4	7	20	X	X	X	X	X	X	X	X						11	
19	2	3	19	X	X	X	X	X	X	X	X						5	
18	3	0	18	X	X	X	X	X	X	X	X						3	
17	2	1	17	X	X	X	X	X	X	X	X						3	
16	0	0	16														0	
15	0	0	15														0	
14	0	0	14														0	
13	0	0	13														0	

LIMITS (BTN):	Speed65 Santa Fe Ave from Murray St to Bradford Ave.	Observer:	Javier C.
POSTED SPEED LIMIT:	25 MPH	Weather:	SUNNY
COMMENTS:		Road Surface:	DRY
		Road Condition:	GOOD
ACCIDENT HISTORY:	0.00	Road Segment Length:	
ACCIDENT RATE:	0	Lanes per Direction:	
EXPECTED RATE:	0	Street Width (ft.):	
PROPOSED SPEED LIMIT:	0	Data Collection Method:	RADAR
ADT:	0	Development:	

	EASTBOUND	WESTBOUND	EASTBOUND+WESTBOUND
85TH %:	28.6	27.2	27.9 M.P.H.
50TH %:	24.3	23.9	24.1 M.P.H.
15TH %:	20.0	20.6	20.3 M.P.H.
10 MPH PACE:	20 - 29	19 - 28	19 - 28 M.P.H.
% IN PACE:	74%	92%	83%
% OVER PACE:	12%	6%	11%
% UNDER PACE:	14%	2%	6%
ARITHMETIC MEAN:	24.28	23.90	24.09 M.P.H.
SAMPLE VARIANCE:	17.06	9.89	13.38
STANDARD DEVIATION:	4.13	3.14	3.66 M.P.H.
VARIANCE OF THE MEAN:	0.34	0.20	0.13
STD. ERROR OF THE MEAN:	0.58	0.44	0.37 M.P.H.

APPENDIX C

Average Daily Traffic

ADT1 All American Way from Alta Vista Street to Chapman Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	0	0	12:00	5	5
0:15	0	1	12:15	7	3
0:30	1	1	12:30	8	6
0:45	1	2	12:45	10	30
			13	27	57
1:00	1	0	13:00	9	10
1:15	0	0	13:15	15	7
1:30	0	0	13:30	7	5
1:45	1	2	13:45	8	39
			10	32	71
2:00	0	2	14:00	19	27
2:15	0	0	14:15	47	12
2:30	0	0	14:30	12	11
2:45	0	0	14:45	12	90
			15	65	155
3:00	0	1	15:00	13	13
3:15	0	0	15:15	19	7
3:30	0	1	15:30	25	5
3:45	0	0	15:45	34	91
			9	34	125
4:00	0	0	16:00	21	9
4:15	0	2	16:15	14	7
4:30	0	3	16:30	19	5
4:45	0	0	16:45	23	77
			14	35	112
5:00	0	2	17:00	17	12
5:15	2	0	17:15	24	12
5:30	3	5	17:30	16	11
5:45	1	6	17:45	22	79
			13	48	127
6:00	2	0	18:00	13	6
6:15	1	3	18:15	14	4
6:30	4	5	18:30	9	4
6:45	3	10	18:45	3	39
			4	18	57
7:00	3	9	19:00	5	5
7:15	11	12	19:15	5	3
7:30	29	22	19:30	7	7
7:45	31	74	19:45	4	21
			6	21	42
8:00	13	6	20:00	10	4
8:15	4	15	20:15	4	1
8:30	9	11	20:30	1	3
8:45	10	36	20:45	3	18
			3	11	29
9:00	11	1	21:00	0	3
9:15	9	13	21:15	1	2
9:30	8	7	21:30	0	4
9:45	5	33	21:45	3	4
			2	11	15
10:00	9	11	22:00	3	0
10:15	7	6	22:15	5	2
10:30	9	8	22:30	0	1
10:45	8	33	22:45	0	8
			2	5	13
11:00	11	3	23:00	1	0
11:15	4	10	23:15	0	1
11:30	5	10	23:30	2	0
11:45	15	35	23:45	1	4
			0	1	5

Total Vol.	231	220	451	500	308	808
			Daily Totals			
			NB	SB	Combined	
			731	528	1259	

	AM			PM		
Split %	51.2%	48.8%	35.8%	61.9%	38.1%	64.2%
Peak Hour	7:15	7:00	7:15	15:15	14:00	14:00
Volume	84	56	137	99	65	155
P.H.F.	0.68	0.64	0.67	0.82	0.60	0.66

ADT2 Alta Vista Street between Angelina Drive and Kraemer Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	0		0		12:00	11		8		
0:15	0		0		12:15	17		16		
0:30	1		3		12:30	22		14		
0:45	1	2	1	4	12:45	18	68	9	47	115
1:00	1		0		13:00	17		18		
1:15	0		0		13:15	15		32		
1:30	1		2		13:30	21		20		
1:45	0	2	1	3	13:45	19	72	21	91	163
2:00	0		1		14:00	40		36		
2:15	0		0		14:15	44		42		
2:30	0		1		14:30	31		55		
2:45	1	1	1	3	14:45	91	206	45	178	384
3:00	0		0		15:00	33		55		
3:15	0		0		15:15	45		45		
3:30	1		1		15:30	93		43		
3:45	3	4	0	1	15:45	46	217	32	175	392
4:00	1		0		16:00	41		26		
4:15	0		1		16:15	32		40		
4:30	2		0		16:30	73		56		
4:45	3	6	0	1	16:45	47	193	63	185	378
5:00	2		0		17:00	66		51		
5:15	2		0		17:15	31		46		
5:30	3		3		17:30	31		33		
5:45	11	18	4	7	17:45	29	157	40	170	327
6:00	11		4		18:00	15		41		
6:15	5		7		18:15	17		39		
6:30	5		7		18:30	26		19		
6:45	14	35	9	27	18:45	13	71	21	120	191
7:00	16		15		19:00	21		18		
7:15	29		12		19:15	12		18		
7:30	56		35		19:30	29		12		
7:45	30	131	49	111	19:45	42	104	12	60	164
8:00	27		34		20:00	8		9		
8:15	33		38		20:15	7		12		
8:30	46		64		20:30	3		9		
8:45	85	191	55	191	20:45	4	22	17	47	69
9:00	96		18		21:00	5		4		
9:15	87		24		21:15	7		7		
9:30	16		12		21:30	3		9		
9:45	12	211	9	63	21:45	1	16	8	28	44
10:00	14		11		22:00	5		4		
10:15	15		13		22:15	2		12		
10:30	10		12		22:30	4		4		
10:45	22	61	16	52	22:45	3	14	5	25	39
11:00	22		8		23:00	2		4		
11:15	11		15		23:15	3		3		
11:30	14		12		23:30	1		3		
11:45	11	58	16	51	23:45	1	7	1	11	18

Total Vol.	720	514	1234		1147	1137		2284
					Daily Totals			Combined
					EB	WB		
					1867	1651		3518

	AM		Split %	PM		Split %
Split %	58.3%	41.7%	35.1%	50.2%	49.8%	64.9%
Peak Hour	8:30	8:00	8:30	14:45	16:30	14:45
Volume	314	191	475	262	216	450
P.H.F.	0.82	0.75	0.85	0.59	0.86	0.83

ADT3 Alta Vista Street between Kraemer Blvd and Rose.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	8	6	12:00	80	83
0:15	4	2	12:15	76	90
0:30	6	4	12:30	74	92
0:45	6 24	5 17	12:45	71 301	92 357
1:00	0	5	13:00	76	108
1:15	2	3	13:15	71	92
1:30	1	1	13:30	80	98
1:45	1 4	3 12	13:45	84 311	96 394
2:00	1	1	14:00	105	79
2:15	0	1	14:15	117	99
2:30	2	0	14:30	110	106
2:45	1 4	1 3	14:45	149 481	143 427
3:00	0	4	15:00	100	132
3:15	0	3	15:15	103	125
3:30	2	3	15:30	153	123
3:45	4 6	3 13	15:45	172 528	94 474
4:00	3	7	16:00	108	102
4:15	0	4	16:15	118	128
4:30	6	3	16:30	160	132
4:45	16 25	4 18	16:45	150 536	148 510
5:00	10	4	17:00	133	133
5:15	15	9	17:15	136	146
5:30	13	18	17:30	120	110
5:45	20 58	18 49	17:45	108 497	105 494
6:00	24	20	18:00	116	84
6:15	39	34	18:15	110	102
6:30	37	37	18:30	81	66
6:45	73 173	59 150	18:45	91 398	72 324
7:00	124	70	19:00	75	71
7:15	120	82	19:15	76	61
7:30	145	101	19:30	59	45
7:45	131 520	134 387	19:45	64 274	49 226
8:00	153	96	20:00	42	41
8:15	132	112	20:15	50	53
8:30	118	132	20:30	43	44
8:45	78 481	260 600	20:45	54 189	44 182
9:00	74	119	21:00	48	43
9:15	80	85	21:15	32	40
9:30	75	94	21:30	35	33
9:45	81 310	73 371	21:45	22 137	29 145
10:00	82	68	22:00	15	20
10:15	78	76	22:15	16	14
10:30	42	78	22:30	10	8
10:45	51 253	88 310	22:45	18 59	13 55
11:00	65	87	23:00	10	10
11:15	69	83	23:15	15	7
11:30	78	72	23:30	8	12
11:45	78 290	73 315	23:45	5 38	8 37

Total Vol.	2148	2245	4393	3749	3625	7374
				Daily Totals		
				EB	WB	Combined
				5897	5870	11767

	AM			PM		
Split %	48.9%	51.1%	37.3%	50.8%	49.2%	62.7%
Peak Hour	7:30	8:15	8:00	16:30	16:30	16:30
Volume	561	623	1081	579	559	1138
P.H.F.	0.92	0.60	0.80	0.90	0.94	0.95

ADT4 Alta Vista Street from Rose to Jefferson St.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB				
0:00	6	4	12:00	69	50				
0:15	3	5	12:15	70	66				
0:30	3	6	12:30	56	63				
0:45	2	14	3	12:45	47	242	58	237	479
1:00	2	3	13:00	61	53				
1:15	1	0	13:15	53	47				
1:30	1	1	13:30	49	64				
1:45	2	6	2	13:45	50	213	74	238	451
2:00	0	2	14:00	67	66				
2:15	1	2	14:15	67	95				
2:30	1	0	14:30	71	87				
2:45	2	4	0	14:45	62	267	94	342	609
3:00	1	2	15:00	66	89				
3:15	4	1	15:15	74	90				
3:30	3	1	15:30	91	109				
3:45	5	13	1	15:45	87	318	119	407	725
4:00	3	3	16:00	81	106				
4:15	3	0	16:15	92	91				
4:30	2	0	16:30	91	124				
4:45	8	16	2	16:45	81	345	121	442	787
5:00	4	6	17:00	89	112				
5:15	8	12	17:15	76	116				
5:30	16	17	17:30	75	93				
5:45	16	44	26	17:45	61	301	96	417	718
6:00	12	14	18:00	62	70				
6:15	30	16	18:15	70	83				
6:30	40	19	18:30	49	56				
6:45	50	132	28	18:45	49	230	59	268	498
7:00	72	44	19:00	42	60				
7:15	80	71	19:15	39	58				
7:30	95	71	19:30	33	57				
7:45	97	344	82	19:45	30	144	45	220	364
8:00	97	90	20:00	35	42				
8:15	101	81	20:15	25	47				
8:30	67	80	20:30	27	41				
8:45	55	320	56	20:45	20	107	49	179	286
9:00	53	42	21:00	12	38				
9:15	51	53	21:15	13	34				
9:30	47	44	21:30	18	27				
9:45	47	198	52	21:45	11	54	16	115	169
10:00	41	50	22:00	8	18				
10:15	54	44	22:15	11	21				
10:30	43	41	22:30	8	11				
10:45	43	181	63	22:45	10	37	15	65	102
11:00	45	38	23:00	5	16				
11:15	51	47	23:15	3	14				
11:30	62	61	23:30	7	11				
11:45	54	212	43	23:45	3	18	15	56	74

Total Vol.	1484	1329	2813	2276	2986	5262
				Daily Totals		Combined
				EB	WB	
				3760	4315	8075

	AM			PM		
Split %	52.8%	47.2%	34.8%	43.3%	56.7%	65.2%
Peak Hour	7:30	7:45	7:30	16:15	16:30	16:30
Volume	390	333	714	353	473	810
P.H.F.	0.97	0.93	0.95	0.94	0.95	0.94

ADT6 Angelina Drive between Chapman Ave and Alta Vista Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	2	1	12:00	2	7
0:15	1	2	12:15	7	10
0:30	1	2	12:30	12	8
0:45	2 6	2 7	12:45	13 34	11 36
1:00	0	1	13:00	12	16
1:15	2	1	13:15	9	15
1:30	2	1	13:30	9	14
1:45	0 4	2 5	13:45	10 40	11 56
2:00	0	0	14:00	14	16
2:15	0	1	14:15	23	12
2:30	1	0	14:30	38	22
2:45	0 1	0 1	14:45	43 118	44 94
3:00	0	0	15:00	38	17
3:15	1	0	15:15	34	31
3:30	0	3	15:30	47	68
3:45	2 3	1 4	15:45	23 142	23 139
4:00	1	0	16:00	18	16
4:15	2	1	16:15	23	24
4:30	0	1	16:30	23	29
4:45	2 5	0 2	16:45	31 95	45 114
5:00	0	2	17:00	17	40
5:15	1	4	17:15	19	29
5:30	2	6	17:30	22	18
5:45	0 3	7 19	17:45	22 80	19 106
6:00	1	2	18:00	12	20
6:15	2	5	18:15	15	13
6:30	3	5	18:30	14	12
6:45	3 9	13 25	18:45	12 53	10 55
7:00	11	8	19:00	12	20
7:15	12	9	19:15	6	10
7:30	19	21	19:30	6	10
7:45	20 62	14 52	19:45	8 32	17 57
8:00	16	22	20:00	7	7
8:15	18	15	20:15	9	6
8:30	35	39	20:30	9	8
8:45	68 137	48 124	20:45	8 33	6 27
9:00	53	79	21:00	8	5
9:15	43	68	21:15	9	5
9:30	9	21	21:30	4	4
9:45	5 110	4 172	21:45	5 26	3 17
10:00	4	10	22:00	2	4
10:15	4	6	22:15	4	6
10:30	5	10	22:30	1	3
10:45	7 20	9 35	22:45	4 11	5 18
11:00	16	12	23:00	5	3
11:15	5	13	23:15	5	3
11:30	12	7	23:30	5	0
11:45	12 45	9 41	23:45	2 17	1 7

Total Vol.	405	487	892	681	726	1407
				Daily Totals		
				NB	SB	Combined
				1086	1213	2299

	AM			PM		
Split %	45.4%	54.6%	38.8%	48.4%	51.6%	61.2%
Peak Hour	8:30	8:30	8:30	14:45	14:45	14:45
Volume	199	234	433	162	160	322
P.H.F.	0.73	0.74	0.82	0.87	0.59	0.70

ADT7 Angelina Drive between Morse Ave and Palm Drive.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	2	2	12:00	16	27
0:15	0	1	12:15	23	29
0:30	1	0	12:30	13	31
0:45	0 3	0 3	12:45	18 70	30 117
1:00	0	0	13:00	18	28
1:15	0	0	13:15	23	34
1:30	0	0	13:30	10	22
1:45	0 0	0 0	13:45	19 70	19 103
2:00	0	1	14:00	15	29
2:15	0	1	14:15	15	37
2:30	0	0	14:30	18	38
2:45	0 0	0 2	14:45	22 70	44 148
3:00	0	0	15:00	20	35
3:15	0	1	15:15	20	36
3:30	0	1	15:30	24	41
3:45	2 2	0 2	15:45	22 86	34 146
4:00	0	1	16:00	21	28
4:15	0	0	16:15	13	37
4:30	0	1	16:30	28	44
4:45	1 1	0 2	16:45	18 80	37 146
5:00	3	0	17:00	16	39
5:15	0	6	17:15	18	32
5:30	2	7	17:30	13	29
5:45	10 15	1 14	17:45	15 62	34 134
6:00	5	8	18:00	17	30
6:15	1	5	18:15	17	19
6:30	4	12	18:30	11	13
6:45	5 15	15 40	18:45	8 53	21 83
7:00	7	22	19:00	18	18
7:15	8	19	19:15	13	14
7:30	12	27	19:30	6	10
7:45	14 41	33 101	19:45	12 49	9 51
8:00	13	30	20:00	9	14
8:15	8	29	20:15	9	8
8:30	18	26	20:30	2	5
8:45	24 63	52 137	20:45	1 21	4 31
9:00	22	50	21:00	4	7
9:15	14	24	21:15	6	4
9:30	9	22	21:30	4	7
9:45	9 54	27 123	21:45	4 18	5 23
10:00	12	29	22:00	1	3
10:15	9	30	22:15	1	1
10:30	8	24	22:30	1	4
10:45	17 46	29 112	22:45	1 4	3 11
11:00	12	35	23:00	0	2
11:15	17	23	23:15	1	1
11:30	17	29	23:30	0	0
11:45	22 68	24 111	23:45	1 2	2 5

Total Vol.	308	647	955	585	998	1583
				Daily Totals		
				NB	SB	Combined
				893	1645	2538

	AM			PM		
Split %	32.3%	67.7%	37.6%	37.0%	63.0%	62.4%
Peak Hour	8:30	8:15	8:30	15:15	16:15	14:45
Volume	78	157	230	87	157	242
P.H.F.	0.81	0.75	0.76	0.92	0.89	0.92

ADT8 Bastanchury Road from West City Limit to Kraemer Blvd

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB	
0:00	18		18		12:00	176		142	
0:15	19		14		12:15	158		132	
0:30	19		8		12:30	184		146	
0:45	17	73	10	50	12:45	182	700	167	587
					1287				
1:00	9		8		13:00	175		201	
1:15	12		5		13:15	198		214	
1:30	17		2		13:30	186		194	
1:45	9	47	2	17	13:45	211	770	201	810
					1580				
2:00	10		4		14:00	210		227	
2:15	6		5		14:15	212		215	
2:30	6		6		14:30	213		204	
2:45	1	23	2	17	14:45	200	835	196	842
					1677				
3:00	2		5		15:00	215		224	
3:15	4		6		15:15	248		203	
3:30	4		6		15:30	268		237	
3:45	2	12	3	20	15:45	266	997	194	858
					1855				
4:00	4		2		16:00	270		233	
4:15	1		2		16:15	267		237	
4:30	4		8		16:30	294		279	
4:45	3	12	6	18	16:45	322	1153	252	1001
					2154				
5:00	5		9		17:00	282		223	
5:15	7		6		17:15	324		276	
5:30	12		18		17:30	323		283	
5:45	21	45	32	65	17:45	352	1281	317	1099
					2380				
6:00	13		22		18:00	299		333	
6:15	20		36		18:15	338		263	
6:30	24		50		18:30	315		244	
6:45	50	107	31	139	18:45	293	1245	232	1072
					2317				
7:00	42		36		19:00	252		220	
7:15	52		60		19:15	249		171	
7:30	82		76		19:30	236		161	
7:45	128	304	99	271	19:45	205	942	145	697
					1639				
8:00	122		139		20:00	183		123	
8:15	205		151		20:15	162		134	
8:30	248		235		20:30	135		100	
8:45	258	833	262	787	20:45	128	608	100	457
					1065				
9:00	221		249		21:00	104		81	
9:15	199		188		21:15	107		95	
9:30	217		236		21:30	95		84	
9:45	253	890	234	907	21:45	104	410	68	328
					738				
10:00	192		185		22:00	90		53	
10:15	175		172		22:15	75		55	
10:30	150		163		22:30	65		55	
10:45	150	667	165	685	22:45	64	294	45	208
					502				
11:00	151		142		23:00	53		47	
11:15	147		134		23:15	38		20	
11:30	170		146		23:30	31		27	
11:45	180	648	153	575	23:45	26	148	16	110
					258				
Total Vol.	3661		3551		7212	9383		8069	
					17452				
					Daily Totals				
					EB		WB		Combined
					13044		11620		24664
AM					PM				
Split %	50.8%	49.2%	29.2%		53.8%	46.2%	70.8%		
Peak Hour	8:15	8:45	8:30		17:30	17:15	17:30		
Volume	932	935	1860		1312	1209	2508		
P.H.F.	0.90	0.89	0.89		0.90	0.91	0.94		

ADT9 Bastanchury Road from Kraemer Blvd to Valencia Ave

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB	
0:00	18		19		12:00	155		139	
0:15	10		9		12:15	149		151	
0:30	12		9		12:30	160		163	
0:45	13	53	6	43	12:45	144	608	142	595
1:00	7		4		13:00	153		191	
1:15	7		4		13:15	175		177	
1:30	16		1		13:30	164		154	
1:45	7	37	1	10	13:45	165	657	172	694
2:00	10		3		14:00	186		200	
2:15	2		4		14:15	171		176	
2:30	3		2		14:30	201		164	
2:45	0	15	2	11	14:45	191	749	198	738
3:00	4		3		15:00	208		165	
3:15	2		5		15:15	211		171	
3:30	2		2		15:30	239		153	
3:45	0	8	3	13	15:45	219	877	146	635
4:00	3		3		16:00	184		155	
4:15	0		2		16:15	206		167	
4:30	3		6		16:30	255		205	
4:45	0	6	5	16	16:45	224	869	177	704
5:00	5		5		17:00	196		151	
5:15	4		4		17:15	224		172	
5:30	9		16		17:30	232		227	
5:45	18	36	12	37	17:45	254	906	202	752
6:00	10		15		18:00	250		229	
6:15	16		26		18:15	269		195	
6:30	15		45		18:30	228		178	
6:45	31	72	31	117	18:45	211	958	143	745
7:00	45		46		19:00	182		149	
7:15	48		50		19:15	213		117	
7:30	72		65		19:30	153		139	
7:45	101	266	72	233	19:45	175	723	117	522
8:00	108		120		20:00	134		103	
8:15	191		139		20:15	110		96	
8:30	239		211		20:30	117		72	
8:45	242	780	228	698	20:45	106	467	75	346
9:00	212		222		21:00	66		71	
9:15	202		198		21:15	69		61	
9:30	189		208		21:30	62		65	
9:45	223	826	192	820	21:45	71	268	51	248
10:00	201		171		22:00	66		45	
10:15	182		180		22:15	53		46	
10:30	164		149		22:30	49		57	
10:45	149	696	139	639	22:45	32	200	28	176
11:00	145		129		23:00	31		39	
11:15	138		149		23:15	31		20	
11:30	153		125		23:30	21		23	
11:45	159	595	127	530	23:45	17	100	19	101

Total Vol. 3390 3167 **6557** 7382 6256 **13638**

Daily Totals		Combined
EB	WB	
10772	9423	20195

	AM		Split %	PM		Split %
Split %	51.7%	48.3%	32.5%	54.1%	45.9%	67.5%
Peak Hour	8:30	8:30	8:30	17:30	17:30	17:30
Volume	895	859	1754	1005	853	1858
P.H.F.	0.92	0.94	0.93	0.97	0.93	0.97

ADT10 Bastanchury Road from Valencia Ave to East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB			
0:00	19		18		12:00	105		103			
0:15	5		4		12:15	118		106			
0:30	8		5		12:30	113		114			
0:45	9	41	5	32	73	12:45	89	425	107	430	855
1:00	7		4		13:00	108		100			
1:15	8		4		13:15	112		108			
1:30	7		2		13:30	103		95			
1:45	6	28	0	10	38	13:45	122	445	111	414	859
2:00	5		1		14:00	134		144			
2:15	3		3		14:15	150		152			
2:30	4		3		14:30	122		146			
2:45	0	12	3	10	22	14:45	118	524	125	567	1091
3:00	4		3		15:00	128		104			
3:15	2		4		15:15	133		143			
3:30	2		1		15:30	178		170			
3:45	1	9	2	10	19	15:45	177	616	137	554	1170
4:00	2		2		16:00	178		164			
4:15	1		1		16:15	160		224			
4:30	3		5		16:30	211		170			
4:45	0	6	5	13	19	16:45	215	764	157	715	1479
5:00	3		2		17:00	185		162			
5:15	4		6		17:15	211		160			
5:30	8		13		17:30	206		172			
5:45	16	31	9	30	61	17:45	243	845	173	667	1512
6:00	6		12		18:00	210		205			
6:15	17		15		18:15	185		176			
6:30	10		28		18:30	190		184			
6:45	26	59	14	69	128	18:45	183	768	162	727	1495
7:00	29		41		19:00	154		117			
7:15	30		59		19:15	156		109			
7:30	55		63		19:30	142		131			
7:45	81	195	93	256	451	19:45	127	579	109	466	1045
8:00	69		111		20:00	123		90			
8:15	94		124		20:15	98		86			
8:30	158		209		20:30	82		71			
8:45	154	475	193	637	1112	20:45	79	382	55	302	684
9:00	143		156		21:00	61		83			
9:15	128		177		21:15	68		51			
9:30	126		190		21:30	70		54			
9:45	140	537	289	812	1349	21:45	63	262	58	246	508
10:00	158		195		22:00	53		43			
10:15	92		139		22:15	54		39			
10:30	84		128		22:30	37		33			
10:45	95	429	148	610	1039	22:45	41	185	22	137	322
11:00	81		133		23:00	25		19			
11:15	90		110		23:15	24		25			
11:30	94		108		23:30	18		15			
11:45	100	365	112	463	828	23:45	16	83	6	65	148

Total Vol.	2187	2952	5139		5878	5290	11168
					Daily Totals		Combined
					EB	WB	
					8065	8242	16307

	AM		31.5%		PM		68.5%
Split %	42.6%	57.4%			52.6%	47.4%	
Peak Hour	8:30	9:15	9:15		17:15	17:45	17:15
Volume	583	851	1403		870	738	1580
P.H.F.	0.92	0.74	0.82		0.93	0.90	0.95

ADT11 Bradford Ave from Santa Fe Ave to Chapman Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB						
0:00	3	3	12:00	47	33						
0:15	0	3	12:15	33	24						
0:30	3	1	12:30	27	35						
0:45	3	9	0	7	16	12:45	34	141	36	128	269
1:00	0	0	13:00	29	25						
1:15	1	0	13:15	40	43						
1:30	2	0	13:30	32	38						
1:45	2	5	1	1	6	13:45	42	143	32	138	281
2:00	1	0	14:00	30	31						
2:15	1	1	14:15	32	37						
2:30	1	0	14:30	54	36						
2:45	0	3	0	1	4	14:45	37	153	39	143	296
3:00	0	0	15:00	30	53						
3:15	1	1	15:15	56	58						
3:30	1	1	15:30	89	48						
3:45	0	2	0	2	4	15:45	59	234	41	200	434
4:00	2	3	16:00	35	29						
4:15	0	2	16:15	59	36						
4:30	3	1	16:30	51	47						
4:45	4	9	7	13	22	16:45	58	203	35	147	350
5:00	0	4	17:00	42	45						
5:15	3	6	17:15	51	34						
5:30	2	6	17:30	30	37						
5:45	2	7	15	31	38	17:45	45	168	31	147	315
6:00	5	9	18:00	40	27						
6:15	4	14	18:15	51	26						
6:30	2	11	18:30	28	36						
6:45	11	22	19	53	75	18:45	31	150	21	110	260
7:00	25	42	19:00	33	26						
7:15	23	37	19:15	27	19						
7:30	46	33	19:30	32	19						
7:45	48	142	43	155	297	19:45	21	113	28	92	205
8:00	47	71	20:00	23	24						
8:15	65	82	20:15	16	17						
8:30	52	42	20:30	14	11						
8:45	40	204	25	220	424	20:45	11	64	10	62	126
9:00	23	15	21:00	17	13						
9:15	26	23	21:15	12	7						
9:30	17	24	21:30	8	10						
9:45	37	103	19	81	184	21:45	12	49	2	32	81
10:00	31	23	22:00	9	2						
10:15	26	23	22:15	4	4						
10:30	29	28	22:30	8	3						
10:45	31	117	29	103	220	22:45	2	23	4	13	36
11:00	28	24	23:00	10	2						
11:15	32	31	23:15	5	0						
11:30	35	36	23:30	3	2						
11:45	28	123	27	118	241	23:45	2	20	1	5	25

Total Vol.	746	785	1531	1461	1217	2678
				Daily Totals		
				NB	SB	Combined
				2207	2002	4209

	AM			PM		
Split %	48.7%	51.3%	36.4%	54.6%	45.4%	63.6%
Peak Hour	7:45	7:45	7:45	15:30	15:00	15:00
Volume	212	238	450	242	200	434
P.H.F.	0.82	0.73	0.77	0.61	0.86	0.79

ADT12 Bradford Ave between Chapman Ave and Madison Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	4	4	12:00	55	53
0:15	4	10	12:15	37	61
0:30	4	6	12:30	57	55
0:45	3 15	6 26	12:45	58 207	73 242
1:00	6	5	13:00	80	76
1:15	2	3	13:15	51	83
1:30	1	0	13:30	54	69
1:45	1 10	1 9	13:45	44 229	63 291
2:00	2	1	14:00	37	64
2:15	4	1	14:15	66	67
2:30	0	1	14:30	60	86
2:45	3 9	1 4	14:45	71 234	72 289
3:00	1	1	15:00	60	105
3:15	2	1	15:15	38	100
3:30	4	2	15:30	85	84
3:45	0 7	3 7	15:45	84 267	82 371
4:00	3	1	16:00	70	74
4:15	5	3	16:15	88	87
4:30	1	4	16:30	73	96
4:45	13 22	4 12	16:45	79 310	93 350
5:00	2	7	17:00	80	105
5:15	2	3	17:15	65	76
5:30	13	9	17:30	73	58
5:45	12 29	22 41	17:45	69 287	68 307
6:00	10	10	18:00	58	64
6:15	13	16	18:15	64	52
6:30	13	15	18:30	54	66
6:45	24 60	25 66	18:45	68 244	58 240
7:00	28	36	19:00	52	62
7:15	42	41	19:15	41	48
7:30	64	69	19:30	40	46
7:45	62 196	81 227	19:45	42 175	37 193
8:00	33	88	20:00	22	45
8:15	45	50	20:15	24	40
8:30	63	54	20:30	30	39
8:45	92 233	91 283	20:45	29 105	28 152
9:00	36	138	21:00	26	41
9:15	66	80	21:15	25	25
9:30	37	54	21:30	25	39
9:45	54 193	53 325	21:45	14 90	18 123
10:00	30	53	22:00	20	25
10:15	38	43	22:15	10	14
10:30	30	41	22:30	18	17
10:45	44 142	41 178	22:45	7 55	11 67
11:00	50	43	23:00	7	12
11:15	40	56	23:15	12	9
11:30	47	66	23:30	3	4
11:45	44 181	60 225	23:45	5 27	7 32

Total Vol.	1097	1403	2500	2230	2657	4887
				Daily Totals		
				NB	SB	Combined
				3327	4060	7387

	AM			PM		
Split %	43.9%	56.1%	33.8%	45.6%	54.4%	66.2%
Peak Hour	8:30	8:30	8:30	15:30	16:15	16:15
Volume	257	363	620	327	381	701
P.H.F.	0.70	0.66	0.85	0.91	0.91	0.95

ADT13 Bradford Ave between Madison Ave and North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	9	5	12:00	96	61
0:15	9	6	12:15	59	74
0:30	9	7	12:30	79	61
0:45	2 29	4 22	12:45	84 318	97 293
1:00	8	6	13:00	106	100
1:15	1	2	13:15	75	91
1:30	3	2	13:30	82	79
1:45	3 15	2 12	13:45	60 323	88 358
2:00	2	2	14:00	63	67
2:15	2	1	14:15	80	94
2:30	0	1	14:30	78	89
2:45	4 8	0 4	14:45	86 307	113 363
3:00	1	1	15:00	85	94
3:15	3	2	15:15	101	90
3:30	4	2	15:30	131	91
3:45	2 10	9 14	15:45	106 423	95 370
4:00	6	2	16:00	84	92
4:15	5	8	16:15	102	98
4:30	4	10	16:30	128	77
4:45	12 27	9 29	16:45	126 440	89 356
5:00	11	13	17:00	120	105
5:15	9	16	17:15	102	87
5:30	17	22	17:30	97	83
5:45	13 50	27 78	17:45	95 414	91 366
6:00	21	18	18:00	87	79
6:15	18	22	18:15	86	78
6:30	19	27	18:30	87	70
6:45	27 85	38 105	18:45	71 331	76 303
7:00	39	54	19:00	82	57
7:15	35	57	19:15	50	61
7:30	63	90	19:30	65	64
7:45	69 206	95 296	19:45	50 247	49 231
8:00	47	103	20:00	40	55
8:15	49	48	20:15	36	52
8:30	52	78	20:30	33	44
8:45	83 231	107 336	20:45	38 147	39 190
9:00	127	75	21:00	43	48
9:15	87	65	21:15	38	24
9:30	53	64	21:30	44	30
9:45	61 328	70 274	21:45	27 152	20 122
10:00	37	65	22:00	25	35
10:15	40	44	22:15	22	18
10:30	55	62	22:30	29	17
10:45	47 179	61 232	22:45	10 86	17 87
11:00	60	49	23:00	13	14
11:15	53	71	23:15	15	13
11:30	71	77	23:30	10	9
11:45	76 260	72 269	23:45	6 44	12 48

Total Vol.	1428	1671	3099	3232	3087	6319
				Daily Totals		
				NB	SB	Combined
				4660	4758	9418

	AM			PM		
Split %	46.1%	53.9%	32.9%	51.1%	48.9%	67.1%
Peak Hour	8:45	7:15	8:30	16:15	14:15	16:15
Volume	350	345	674	476	390	845
P.H.F.	0.69	0.84	0.83	0.94	0.86	0.94

ADT14 Brookhaven Ave from Yorba Linda Blvd to Bastanchury Road

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	0	2	12:00	8	10
0:15	0	0	12:15	9	9
0:30	0	2	12:30	8	10
0:45	0 0	0 4	12:45	11 36	7 36
1:00	0	1	13:00	5	10
1:15	0	0	13:15	9	10
1:30	1	1	13:30	9	6
1:45	0 1	0 2	13:45	18 41	22 48
2:00	0	0	14:00	25	28
2:15	0	0	14:15	27	81
2:30	0	1	14:30	16	18
2:45	0 0	0 1	14:45	9 77	18 145
3:00	0	0	15:00	4	7
3:15	1	0	15:15	8	7
3:30	0	0	15:30	21	21
3:45	0 1	0 0	15:45	12 45	21 56
4:00	0	0	16:00	15	21
4:15	0	0	16:15	21	24
4:30	0	0	16:30	19	12
4:45	0 0	0 0	16:45	16 71	13 70
5:00	0	0	17:00	4	14
5:15	0	0	17:15	16	8
5:30	0	0	17:30	22	17
5:45	0 0	1 1	17:45	21 63	22 61
6:00	1	1	18:00	10	17
6:15	1	0	18:15	10	9
6:30	1	1	18:30	7	13
6:45	4 7	2 4	18:45	10 37	11 50
7:00	1	1	19:00	8	3
7:15	0	0	19:15	8	8
7:30	2	2	19:30	8	10
7:45	5 8	0 3	19:45	3 27	4 25
8:00	6	5	20:00	5	6
8:15	22	20	20:15	2	4
8:30	65	102	20:30	7	7
8:45	32 125	80 207	20:45	5 19	6 23
9:00	13	8	21:00	6	3
9:15	9	6	21:15	4	3
9:30	22	12	21:30	3	4
9:45	30 74	16 42	21:45	3 16	9 19
10:00	29	13	22:00	1	4
10:15	8	10	22:15	4	0
10:30	12	10	22:30	1	2
10:45	12 61	7 40	22:45	1 7	2 8
11:00	4	4	23:00	1	0
11:15	5	5	23:15	3	5
11:30	4	7	23:30	1	1
11:45	7 20	8 24	23:45	1 6	0 6

Total Vol.	297	328	625	445	547	992
				Daily Totals		
				NB	SB	Combined
				742	875	1617

	AM			PM		
Split %	47.5%	52.5%	38.7%	44.9%	55.1%	61.3%
Peak Hour	8:15	8:15	8:15	13:45	13:45	13:45
Volume	132	210	342	86	149	235
P.H.F.	0.51	0.51	0.51	0.90	0.46	0.54

ADT15 Buena Vista Ave from Rose Dr to East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	3	2	12:00	42	72
0:15	2	3	12:15	64	59
0:30	4	3	12:30	55	53
0:45	7 16	4 12	12:45	49 210	76 260
1:00	2	2	13:00	61	62
1:15	4	3	13:15	47	74
1:30	2	1	13:30	71	78
1:45	4 12	0 6	13:45	88 267	72 286
2:00	0	0	14:00	74	86
2:15	1	3	14:15	79	123
2:30	0	1	14:30	104	110
2:45	0 1	0 4	14:45	98 355	93 412
3:00	1	2	15:00	93	109
3:15	0	1	15:15	76	100
3:30	1	2	15:30	117	91
3:45	1 3	2 7	15:45	107 393	76 376
4:00	1	4	16:00	101	77
4:15	1	10	16:15	110	81
4:30	2	7	16:30	111	91
4:45	2 6	10 31	16:45	96 418	90 339
5:00	4	10	17:00	114	97
5:15	2	12	17:15	117	79
5:30	9	19	17:30	95	75
5:45	11 26	26 67	17:45	91 417	82 333
6:00	8	21	18:00	96	78
6:15	17	25	18:15	83	85
6:30	15	47	18:30	81	60
6:45	24 64	71 164	18:45	79 339	44 267
7:00	33	100	19:00	72	42
7:15	59	118	19:15	47	38
7:30	63	117	19:30	54	30
7:45	78 233	117 452	19:45	42 215	21 131
8:00	51	126	20:00	44	34
8:15	68	110	20:15	27	35
8:30	71	85	20:30	31	26
8:45	59 249	83 404	20:45	38 140	29 124
9:00	42	61	21:00	32	19
9:15	51	63	21:15	28	22
9:30	39	57	21:30	19	9
9:45	45 177	69 250	21:45	18 97	16 66
10:00	37	65	22:00	17	15
10:15	37	68	22:15	16	19
10:30	46	85	22:30	11	15
10:45	38 158	44 262	22:45	13 57	13 62
11:00	59	75	23:00	6	7
11:15	49	67	23:15	7	4
11:30	46	68	23:30	5	4
11:45	62 216	70 280	23:45	4 22	4 19

Total Vol.	1161	1939	3100	2930	2675	5605
				Daily Totals		
				EB	WB	Combined
				4091	4614	8705

	AM			PM		
Split %	37.5%	62.5%	35.6%	52.3%	47.7%	64.4%
Peak Hour	7:45	7:15	7:30	16:30	14:15	14:15
Volume	268	478	730	438	435	809
P.H.F.	0.86	0.95	0.94	0.95	0.88	0.95

ADT16 Central Ave from Chapman Ave to Alta Vista Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB	
0:00	2		0		12:00	34		19	
0:15	3		0		12:15	27		15	
0:30	0		0		12:30	31		13	
0:45	1	6	0	0	12:45	32	124	19	66
1:00	0		1		13:00	27		19	
1:15	1		0		13:15	20		21	
1:30	0		0		13:30	33		15	
1:45	1	2	0	1	13:45	26	106	20	75
2:00	0		0		14:00	28		30	
2:15	2		0		14:15	63		32	
2:30	1		0		14:30	42		22	
2:45	0	3	0	0	14:45	37	170	17	101
3:00	0		0		15:00	39		16	
3:15	0		0		15:15	33		18	
3:30	2		0		15:30	61		25	
3:45	0	2	0	0	15:45	46	179	21	80
4:00	1		2		16:00	46		16	
4:15	2		0		16:15	42		21	
4:30	2		1		16:30	42		18	
4:45	0	5	1	4	16:45	49	179	18	73
5:00	2		1		17:00	55		21	
5:15	5		2		17:15	44		20	
5:30	3		5		17:30	38		16	
5:45	6	16	2	10	17:45	35	172	11	68
6:00	6		2		18:00	31		12	
6:15	17		7		18:15	25		8	
6:30	8		4		18:30	41		13	
6:45	18	49	6	19	18:45	34	131	10	43
7:00	20		17		19:00	27		7	
7:15	27		41		19:15	12		6	
7:30	44		56		19:30	19		5	
7:45	35	126	21	135	19:45	21	79	8	26
8:00	36		21		20:00	18		9	
8:15	21		19		20:15	14		6	
8:30	33		22		20:30	7		3	
8:45	26	116	15	77	20:45	10	49	6	24
9:00	16		9		21:00	15		3	
9:15	21		12		21:15	12		5	
9:30	19		18		21:30	5		6	
9:45	18	74	10	49	21:45	4	36	1	15
10:00	16		6		22:00	9		5	
10:15	18		12		22:15	8		0	
10:30	21		16		22:30	5		3	
10:45	26	81	8	42	22:45	5	27	1	9
11:00	22		11		23:00	5		2	
11:15	22		10		23:15	3		2	
11:30	26		18		23:30	2		2	
11:45	33	103	15	54	23:45	2	12	0	6

Total Vol.	583	391	974		1264	586	1850
					Daily Totals		Combined
					NB	SB	
					1847	977	2824

	AM			PM		
Split %	59.9%	40.1%	34.5%	68.3%	31.7%	65.5%
Peak Hour	7:15	7:15	7:15	15:30	13:45	15:30
Volume	142	139	281	195	104	278
P.H.F.	0.81	0.62	0.70	0.82	0.81	0.81

ADT18 Chapman Ave from Kraemer Blvd to Orangethorpe Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB						
0:00	5	2	12:00	36	46						
0:15	3	2	12:15	41	45						
0:30	3	5	12:30	38	36						
0:45	2	13	3	12	25	12:45	44	159	49	176	335
1:00	4	4	13:00	45	38						
1:15	4	4	13:15	53	42						
1:30	3	3	13:30	51	48						
1:45	2	13	2	13	26	13:45	57	206	40	168	374
2:00	2	3	14:00	53	64						
2:15	2	2	14:15	73	67						
2:30	1	2	14:30	58	78						
2:45	0	5	3	10	15	14:45	59	243	71	280	523
3:00	1	1	15:00	71	75						
3:15	6	1	15:15	62	66						
3:30	3	3	15:30	85	88						
3:45	6	16	1	6	22	15:45	99	317	66	295	612
4:00	2	1	16:00	70	67						
4:15	6	7	16:15	77	68						
4:30	13	3	16:30	83	98						
4:45	11	32	6	17	49	16:45	80	310	76	309	619
5:00	14	4	17:00	96	85						
5:15	15	9	17:15	86	85						
5:30	27	12	17:30	79	62						
5:45	27	83	14	39	122	17:45	74	335	54	286	621
6:00	21	14	18:00	60	56						
6:15	28	18	18:15	52	56						
6:30	31	25	18:30	49	52						
6:45	53	133	41	98	231	18:45	39	200	46	210	410
7:00	50	88	19:00	33	38						
7:15	81	90	19:15	42	25						
7:30	101	90	19:30	28	35						
7:45	95	327	78	346	673	19:45	34	137	21	119	256
8:00	81	84	20:00	24	30						
8:15	69	76	20:15	25	26						
8:30	69	57	20:30	21	19						
8:45	46	265	49	266	531	20:45	37	107	15	90	197
9:00	39	36	21:00	11	25						
9:15	37	48	21:15	21	18						
9:30	40	34	21:30	17	15						
9:45	31	147	45	163	310	21:45	14	63	10	68	131
10:00	41	35	22:00	15	10						
10:15	33	41	22:15	13	10						
10:30	27	39	22:30	11	8						
10:45	41	142	51	166	308	22:45	9	48	2	30	78
11:00	38	35	23:00	8	5						
11:15	29	51	23:15	7	6						
11:30	42	53	23:30	5	5						
11:45	42	151	43	182	333	23:45	5	25	5	21	46

Total Vol.	1327	1318	2645	2150	2052	4202
				Daily Totals		
				EB	WB	Combined
				3477	3370	6847

	AM			PM		
Split %	50.2%	49.8%	38.6%	51.2%	48.8%	61.4%
Peak Hour	7:15	7:00	7:15	16:30	16:30	16:30
Volume	358	346	700	345	344	689
P.H.F.	0.89	0.96	0.92	0.92	0.88	0.95

ADT19 Crowther Ave from Placentia Ave to Porter Way.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB						
0:00	2	3	12:00	46	46						
0:15	6	2	12:15	52	52						
0:30	1	1	12:30	60	45						
0:45	3	12	0	6	18	12:45	52	210	59	202	412
1:00	0	2	13:00	44	56						
1:15	1	2	13:15	61	45						
1:30	1	0	13:30	54	46						
1:45	1	3	0	4	7	13:45	56	215	42	189	404
2:00	0	0	14:00	53	44						
2:15	1	4	14:15	56	64						
2:30	1	2	14:30	57	68						
2:45	0	2	0	6	8	14:45	65	231	62	238	469
3:00	1	0	15:00	42	58						
3:15	1	2	15:15	52	49						
3:30	1	1	15:30	82	68						
3:45	6	9	3	6	15	15:45	73	249	74	249	498
4:00	1	2	16:00	46	87						
4:15	0	3	16:15	54	67						
4:30	9	4	16:30	63	63						
4:45	16	26	9	18	44	16:45	57	220	58	275	495
5:00	19	12	17:00	69	60						
5:15	9	7	17:15	73	57						
5:30	20	7	17:30	48	52						
5:45	25	73	17	43	116	17:45	57	247	40	209	456
6:00	18	22	18:00	57	42						
6:15	13	25	18:15	30	33						
6:30	18	21	18:30	39	29						
6:45	41	90	27	95	185	18:45	33	159	42	146	305
7:00	35	38	19:00	34	20						
7:15	41	54	19:15	22	17						
7:30	31	54	19:30	23	16						
7:45	34	141	66	212	353	19:45	26	105	9	62	167
8:00	25	59	20:00	19	13						
8:15	41	51	20:15	15	13						
8:30	53	48	20:30	12	12						
8:45	36	155	43	201	356	20:45	11	57	10	48	105
9:00	37	30	21:00	14	9						
9:15	42	45	21:15	17	8						
9:30	41	44	21:30	13	8						
9:45	30	150	44	163	313	21:45	8	52	5	30	82
10:00	40	43	22:00	11	5						
10:15	29	38	22:15	5	5						
10:30	38	25	22:30	8	3						
10:45	35	142	42	148	290	22:45	4	28	5	18	46
11:00	29	45	23:00	5	17						
11:15	49	35	23:15	8	2						
11:30	44	38	23:30	3	2						
11:45	36	158	50	168	326	23:45	5	21	5	26	47

Total Vol.	961	1070	2031	1794	1692	3486
				Daily Totals		Combined
				EB	WB	
				2755	2762	5517

	AM			PM		
Split %	47.3%	52.7%	36.8%	51.5%	48.5%	63.2%
Peak Hour	11:45	7:15	11:45	16:30	15:30	15:30
Volume	194	233	387	262	296	551
P.H.F.	0.81	0.88	0.92	0.93	0.85	0.92

ADT20 Crowther Ave from Porter Way to East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	0		3		12:00	40		44		
0:15	3		2		12:15	39		45		
0:30	1		1		12:30	56		41		
0:45	2	6	1	7	12:45	48	183	51	181	364
1:00	0		1		13:00	34		49		
1:15	0		3		13:15	55		41		
1:30	1		0		13:30	49		41		
1:45	0	1	0	4	13:45	54	192	38	169	361
2:00	1		0		14:00	52		43		
2:15	2		0		14:15	42		51		
2:30	1		2		14:30	54		51		
2:45	0	4	0	2	14:45	59	207	56	201	408
3:00	0		0		15:00	40		52		
3:15	1		0		15:15	51		43		
3:30	1		0		15:30	71		53		
3:45	5	7	2	2	15:45	63	225	68	216	441
4:00	1		2		16:00	53		62		
4:15	1		1		16:15	59		62		
4:30	6		2		16:30	60		49		
4:45	7	15	10	15	16:45	48	220	54	227	447
5:00	7		7		17:00	71		55		
5:15	4		5		17:15	71		48		
5:30	10		5		17:30	44		48		
5:45	13	34	16	33	17:45	49	235	38	189	424
6:00	13		14		18:00	45		38		
6:15	9		13		18:15	29		31		
6:30	15		19		18:30	35		25		
6:45	27	64	25	71	18:45	26	135	39	133	268
7:00	31		27		19:00	24		20		
7:15	34		40		19:15	19		14		
7:30	29		51		19:30	18		16		
7:45	29	123	67	185	19:45	18	79	12	62	141
8:00	17		59		20:00	11		10		
8:15	43		46		20:15	11		14		
8:30	44		42		20:30	3		9		
8:45	30	134	35	182	20:45	6	31	8	41	72
9:00	37		22		21:00	5		7		
9:15	37		41		21:15	13		7		
9:30	39		40		21:30	9		6		
9:45	28	141	43	146	21:45	5	32	4	24	56
10:00	37		39		22:00	7		3		
10:15	24		30		22:15	2		6		
10:30	30		24		22:30	3		3		
10:45	34	125	38	131	22:45	0	12	2	14	26
11:00	26		43		23:00	4		2		
11:15	47		32		23:15	2		0		
11:30	31		31		23:30	2		1		
11:45	41	145	40	146	23:45	2	10	3	6	16

Total Vol.	799	924	1723		1561	1463		3024
					Daily Totals			
					EB	WB		Combined
					2360	2387		4747

	AM			PM		
Split %	46.4%	53.6%	36.3%	51.6%	48.4%	63.7%
Peak Hour	11:45	7:30	7:45	16:30	15:30	15:30
Volume	176	223	347	250	245	491
P.H.F.	0.79	0.83	0.90	0.88	0.90	0.94

ADT21 Fee Ana Street between South City Limits and North Terminus.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB			
0:00	1	1	12:00	9	22			
0:15	0	3	12:15	20	17			
0:30	1	2	12:30	16	15			
0:45	0	2	12:45	22	67	9	63	130
1:00	0	0	13:00	19	15			
1:15	2	1	13:15	21	19			
1:30	1	3	13:30	27	22			
1:45	1	4	13:45	29	96	14	70	166
2:00	1	3	14:00	27	24			
2:15	0	2	14:15	18	29			
2:30	1	2	14:30	23	32			
2:45	1	3	14:45	18	86	13	98	184
3:00	0	0	15:00	16	26			
3:15	1	2	15:15	23	9			
3:30	8	0	15:30	20	34			
3:45	10	19	15:45	10	69	23	92	161
4:00	10	6	16:00	14	28			
4:15	7	0	16:15	17	24			
4:30	18	2	16:30	6	24			
4:45	42	77	16:45	7	44	14	90	134
5:00	26	7	17:00	9	25			
5:15	23	6	17:15	4	20			
5:30	44	12	17:30	2	7			
5:45	39	132	17:45	1	16	5	57	73
6:00	24	10	18:00	9	6			
6:15	25	13	18:15	9	9			
6:30	22	10	18:30	6	2			
6:45	30	101	18:45	6	30	5	22	52
7:00	30	14	19:00	3	9			
7:15	32	11	19:15	2	3			
7:30	19	14	19:30	4	1			
7:45	18	99	19:45	2	11	2	15	26
8:00	23	19	20:00	3	0			
8:15	25	24	20:15	1	1			
8:30	14	18	20:30	1	2			
8:45	22	84	20:45	4	9	3	6	15
9:00	21	9	21:00	0	1			
9:15	9	8	21:15	0	0			
9:30	20	11	21:30	0	1			
9:45	18	68	21:45	0	0	0	2	2
10:00	19	10	22:00	1	5			
10:15	12	11	22:15	0	1			
10:30	14	13	22:30	4	2			
10:45	8	53	22:45	0	5	3	11	16
11:00	21	11	23:00	2	0			
11:15	18	12	23:15	1	0			
11:30	24	11	23:30	0	2			
11:45	18	81	23:45	0	3	1	3	6

Total Vol.	723	375	1098	436	529	965
				Daily Totals		
				NB	SB	Combined
				1159	904	2063

	AM			PM		
Split %	65.8%	34.2%	53.2%	45.2%	54.8%	46.8%
Peak Hour	4:45	7:45	5:30	13:15	15:30	13:45
Volume	135	80	172	104	109	196
P.H.F.	0.77	0.83	0.77	0.91	0.80	0.89

ADT22 Golden Ave between Kraemer Blvd and Valencia Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	1	3	12:00	31	32
0:15	2	3	12:15	57	53
0:30	0	1	12:30	45	63
0:45	2 5	0 7	12:45	60 193	29 177
1:00	2	2	13:00	59	61
1:15	1	0	13:15	50	82
1:30	0	0	13:30	37	66
1:45	1 4	2 4	13:45	42 188	44 253
2:00	1	0	14:00	32	45
2:15	1	1	14:15	46	52
2:30	0	1	14:30	71	62
2:45	1 3	0 2	14:45	33 182	40 199
3:00	0	0	15:00	32	32
3:15	0	0	15:15	50	45
3:30	0	0	15:30	40	62
3:45	0 0	1 1	15:45	49 171	36 175
4:00	1	2	16:00	55	57
4:15	0	4	16:15	53	60
4:30	1	2	16:30	43	46
4:45	3 5	4 12	16:45	55 206	47 210
5:00	2	8	17:00	46	51
5:15	3	11	17:15	44	42
5:30	3	14	17:30	58	51
5:45	6 14	15 48	17:45	63 211	36 180
6:00	5	12	18:00	39	29
6:15	5	21	18:15	27	28
6:30	6	31	18:30	36	31
6:45	14 30	38 102	18:45	28 130	31 119
7:00	32	39	19:00	23	21
7:15	50	59	19:15	21	16
7:30	118	80	19:30	20	14
7:45	36 236	101 279	19:45	13 77	15 66
8:00	31	47	20:00	18	18
8:15	32	61	20:15	22	19
8:30	46	75	20:30	13	24
8:45	56 165	52 235	20:45	15 68	12 73
9:00	30	51	21:00	17	16
9:15	29	47	21:15	11	15
9:30	16	42	21:30	16	10
9:45	18 93	48 188	21:45	3 47	5 46
10:00	20	39	22:00	11	3
10:15	31	37	22:15	4	4
10:30	34	30	22:30	5	4
10:45	23 108	40 146	22:45	8 28	3 14
11:00	27	40	23:00	5	2
11:15	33	39	23:15	7	1
11:30	31	37	23:30	1	1
11:45	32 123	44 160	23:45	2 15	3 7

Total Vol.	786	1184	1970	1516	1519	3035
				Daily Totals		
				EB	WB	Combined
				2302	2703	5005

	AM			PM		
Split %	39.9%	60.1%	39.4%	50.0%	50.0%	60.6%
Peak Hour	7:00	7:30	7:15	12:15	13:00	12:30
Volume	236	289	522	221	253	449
P.H.F.	0.50	0.72	0.66	0.93	0.77	0.85

ADT23 Golden Ave between Valencia Ave and East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB	
0:00	2		0		12:00	24		34	
0:15	2		1		12:15	39		39	
0:30	1		1		12:30	59		29	
0:45	3	8	0	2	12:45	55	177	27	129
1:00	1		2		13:00	62		64	
1:15	1		2		13:15	52		96	
1:30	0		0		13:30	30		63	
1:45	2	4	2	6	13:45	33	177	32	255
2:00	0		0		14:00	20		33	
2:15	1		0		14:15	28		30	
2:30	0		0		14:30	39		36	
2:45	1	2	0	0	14:45	19	106	34	133
3:00	0		0		15:00	31		30	
3:15	0		1		15:15	49		50	
3:30	0		0		15:30	34		44	
3:45	0	0	0	1	15:45	33	147	40	164
4:00	0		3		16:00	42		50	
4:15	0		4		16:15	32		37	
4:30	2		2		16:30	30		41	
4:45	0	2	2	11	16:45	34	138	38	166
5:00	1		6		17:00	31		40	
5:15	2		5		17:15	37		48	
5:30	1		8		17:30	35		40	
5:45	2	6	7	26	17:45	37	140	32	160
6:00	2		7		18:00	23		27	
6:15	6		11		18:15	13		22	
6:30	5		16		18:30	18		23	
6:45	19	32	13	47	18:45	18	72	21	93
7:00	11		25		19:00	13		18	
7:15	90		66		19:15	14		11	
7:30	91		96		19:30	12		12	
7:45	42	234	99	286	19:45	8	47	13	54
8:00	23		34		20:00	15		18	
8:15	33		39		20:15	12		10	
8:30	27		44		20:30	7		15	
8:45	25	108	52	169	20:45	10	44	12	55
9:00	32		28		21:00	9		8	
9:15	28		34		21:15	10		10	
9:30	30		42		21:30	9		4	
9:45	13	103	25	129	21:45	5	33	5	27
10:00	16		23		22:00	4		2	
10:15	17		21		22:15	3		3	
10:30	26		29		22:30	3		3	
10:45	34	93	38	111	22:45	5	15	1	9
11:00	27		26		23:00	3		2	
11:15	27		33		23:15	7		1	
11:30	18		30		23:30	1		3	
11:45	35	107	31	120	23:45	1	12	1	7

Total Vol.	699	908	1607		1108	1252		2360
					Daily Totals			Combined
					EB	WB		
					1807	2160		3967

	AM			PM		
Split %	43.5%	56.5%	40.5%	46.9%	53.1%	59.5%
Peak Hour	7:15	7:15	7:15	12:30	13:00	12:45
Volume	246	295	541	228	255	449
P.H.F.	0.68	0.74	0.72	0.96	0.66	0.76

ADT24 Highland Ave between Orangethorpe Ave and North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB	
0:00	0		0		12:00	12		5	
0:15	0		0		12:15	7		6	
0:30	0		0		12:30	6		7	
0:45	1	1	0	0	12:45	12	37	12	30
1:00	0		0		13:00	9		13	
1:15	2		1		13:15	14		10	
1:30	1		1		13:30	16		12	
1:45	0	3	0	2	13:45	12	51	13	48
2:00	0		1		14:00	9		6	
2:15	1		0		14:15	14		6	
2:30	0		0		14:30	13		12	
2:45	0	1	1	2	14:45	8	44	7	31
3:00	0		0		15:00	8		8	
3:15	0		0		15:15	14		6	
3:30	0		1		15:30	14		9	
3:45	0	0	1	2	15:45	14	50	6	29
4:00	0		0		16:00	12		10	
4:15	2		0		16:15	14		12	
4:30	1		1		16:30	18		6	
4:45	1	4	1	2	16:45	20	64	7	35
5:00	1		5		17:00	23		8	
5:15	1		0		17:15	18		9	
5:30	1		2		17:30	11		10	
5:45	2	5	4	11	17:45	11	63	5	32
6:00	1		5		18:00	9		11	
6:15	3		5		18:15	9		10	
6:30	1		6		18:30	13		5	
6:45	6	11	9	25	18:45	14	45	5	31
7:00	5		14		19:00	12		9	
7:15	11		18		19:15	11		4	
7:30	9		23		19:30	12		5	
7:45	15	40	12	67	19:45	4	39	8	26
8:00	11		16		20:00	2		3	
8:15	8		11		20:15	4		1	
8:30	8		10		20:30	6		3	
8:45	5	32	15	52	20:45	6	18	1	8
9:00	10		8		21:00	4		6	
9:15	4		8		21:15	2		2	
9:30	7		9		21:30	2		2	
9:45	3	24	10	35	21:45	8	16	1	11
10:00	7		6		22:00	2		0	
10:15	7		4		22:15	4		0	
10:30	6		15		22:30	1		0	
10:45	7	27	5	30	22:45	1	8	2	2
11:00	6		7		23:00	1		1	
11:15	4		8		23:15	3		0	
11:30	11		7		23:30	2		2	
11:45	8	29	5	27	23:45	2	8	2	5

Total Vol.	177	255	432		443	288	731
					Daily Totals		Combined
					NB	SB	
					620	543	1163

	AM			PM		
Split %	41.0%	59.0%	37.1%	60.6%	39.4%	62.9%
Peak Hour	7:15	7:15	7:15	16:30	13:00	16:30
Volume	46	69	115	79	48	109
P.H.F.	0.77	0.75	0.90	0.91	0.92	0.88

ADT25 Jefferson St from South City Limit to Orangethorpe Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	2	2	12:00	37	15
0:15	4	0	12:15	31	27
0:30	0	2	12:30	27	14
0:45	7 13	1 5	12:45	22 117	28 84
1:00	5	2	13:00	21	26
1:15	2	0	13:15	28	24
1:30	5	2	13:30	37	16
1:45	6 18	2 6	13:45	41 127	23 89
2:00	3	0	14:00	27	27
2:15	2	3	14:15	20	22
2:30	1	2	14:30	31	18
2:45	0 6	2 7	14:45	36 114	24 91
3:00	3	0	15:00	31	22
3:15	0	0	15:15	39	17
3:30	0	3	15:30	38	22
3:45	1 4	3 6	15:45	41 149	29 90
4:00	5	3	16:00	62	23
4:15	0	7	16:15	45	19
4:30	0	4	16:30	59	24
4:45	9 14	5 19	16:45	61 227	15 81
5:00	8	4	17:00	64	25
5:15	10	11	17:15	52	20
5:30	6	24	17:30	36	18
5:45	11 35	30 69	17:45	51 203	19 82
6:00	8	26	18:00	41	16
6:15	10	30	18:15	39	16
6:30	10	22	18:30	37	17
6:45	12 40	45 123	18:45	31 148	23 72
7:00	7	37	19:00	27	5
7:15	14	37	19:15	23	23
7:30	14	35	19:30	18	6
7:45	24 59	31 140	19:45	21 89	9 43
8:00	21	33	20:00	26	10
8:15	18	22	20:15	21	5
8:30	29	28	20:30	20	7
8:45	21 89	27 110	20:45	32 99	7 29
9:00	16	23	21:00	16	5
9:15	23	17	21:15	13	5
9:30	21	31	21:30	13	4
9:45	26 86	21 92	21:45	14 56	2 16
10:00	20	23	22:00	14	4
10:15	21	16	22:15	13	5
10:30	22	19	22:30	3	0
10:45	14 77	23 81	22:45	10 40	3 12
11:00	20	15	23:00	8	3
11:15	22	23	23:15	11	1
11:30	29	25	23:30	8	2
11:45	29 100	15 78	23:45	2 29	4 10

Total Vol.	541	736	1277	1398	699	2097
				Daily Totals		
				NB	SB	Combined
				1939	1435	3374

	AM			PM		
Split %	42.4%	57.6%	37.8%	66.7%	33.3%	62.2%
Peak Hour	11:30	6:45	7:15	16:30	12:15	16:30
Volume	126	154	209	236	95	320
P.H.F.	0.85	0.86	0.95	0.97	0.85	0.90

ADT26 Jefferson St from Orangethorpe Ave to Alta Vista Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	3	0	12:00	35	17
0:15	2	2	12:15	26	32
0:30	0	1	12:30	22	18
0:45	5 10	2 5	12:45	17 100	19 86
1:00	3	2	13:00	25	17
1:15	0	0	13:15	20	24
1:30	1	0	13:30	20	20
1:45	2 6	2 4	13:45	23 88	27 88
2:00	0	0	14:00	25	20
2:15	0	0	14:15	34	24
2:30	3	0	14:30	30	23
2:45	3 6	1 1	14:45	27 116	26 93
3:00	2	1	15:00	31	25
3:15	0	0	15:15	39	24
3:30	1	0	15:30	40	30
3:45	0 3	1 2	15:45	41 151	28 107
4:00	1	1	16:00	40	31
4:15	1	1	16:15	44	22
4:30	2	1	16:30	48	23
4:45	1 5	2 5	16:45	66 198	30 106
5:00	4	4	17:00	56	30
5:15	5	6	17:15	45	26
5:30	7	4	17:30	41	18
5:45	8 24	14 28	17:45	48 190	21 95
6:00	6	8	18:00	42	17
6:15	7	23	18:15	43	25
6:30	11	33	18:30	27	30
6:45	12 36	35 99	18:45	23 135	22 94
7:00	14	25	19:00	36	13
7:15	26	37	19:15	12	15
7:30	23	28	19:30	17	15
7:45	25 88	37 127	19:45	13 78	11 54
8:00	22	29	20:00	17	7
8:15	24	36	20:15	19	15
8:30	18	28	20:30	18	9
8:45	21 85	24 117	20:45	15 69	9 40
9:00	18	19	21:00	13	4
9:15	14	26	21:15	8	4
9:30	11	12	21:30	11	9
9:45	19 62	17 74	21:45	10 42	4 21
10:00	23	20	22:00	7	5
10:15	16	20	22:15	13	1
10:30	22	18	22:30	4	2
10:45	22 83	24 82	22:45	8 32	2 10
11:00	21	14	23:00	6	3
11:15	20	20	23:15	7	5
11:30	23	26	23:30	3	3
11:45	23 87	15 75	23:45	3 19	2 13

Total Vol.	495	619	1114	1218	807	2025
				Daily Totals		Combined
				NB	SB	
				1713	1426	3139

	AM			PM		
Split %	44.4%	55.6%	35.5%	60.1%	39.9%	64.5%
Peak Hour	11:30	7:15	7:15	16:30	15:15	16:30
Volume	107	131	227	215	113	324
P.H.F.	0.76	0.89	0.90	0.86	0.91	0.84

ADT27 Jefferson St from Alta Vista Street to Garten Drive.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB	
0:00	0	0	12:00	3	3	
0:15	3	0	12:15	13	2	
0:30	0	0	12:30	6	9	
0:45	0 3	0 0	12:45	10 32	3 17	49
1:00	0	0	13:00	3	9	
1:15	0	0	13:15	3	4	
1:30	0	0	13:30	6	5	
1:45	0 0	0 0	13:45	4 16	3 21	37
2:00	0	0	14:00	5	4	
2:15	1	0	14:15	5	8	
2:30	0	0	14:30	3	6	
2:45	0 1	0 0	14:45	7 20	6 24	44
3:00	1	1	15:00	3	6	
3:15	1	0	15:15	8	7	
3:30	0	0	15:30	11	6	
3:45	0 2	0 1	15:45	9 31	11 30	61
4:00	1	1	16:00	5	4	
4:15	0	0	16:15	11	10	
4:30	1	0	16:30	2	4	
4:45	0 2	1 2	16:45	8 26	18 36	62
5:00	0	0	17:00	5	17	
5:15	1	2	17:15	4	9	
5:30	2	1	17:30	3	7	
5:45	5 8	1 4	17:45	8 20	9 42	62
6:00	1	1	18:00	10	9	
6:15	2	0	18:15	9	11	
6:30	6	2	18:30	11	5	
6:45	5 14	5 8	18:45	6 36	6 31	67
7:00	8	4	19:00	6	12	
7:15	7	3	19:15	6	5	
7:30	6	6	19:30	2	2	
7:45	9 30	4 17	19:45	1 15	5 24	39
8:00	7	2	20:00	7	7	
8:15	10	9	20:15	4	8	
8:30	4	3	20:30	11	3	
8:45	8 29	6 20	20:45	5 27	6 24	51
9:00	8	0	21:00	2	4	
9:15	7	3	21:15	4	5	
9:30	4	1	21:30	2	3	
9:45	4 23	1 5	21:45	3 11	1 13	24
10:00	5	4	22:00	0	1	
10:15	6	3	22:15	1	4	
10:30	3	5	22:30	1	0	
10:45	1 15	4 16	22:45	0 2	2 7	9
11:00	2	7	23:00	0	1	
11:15	4	8	23:15	0	0	
11:30	6	6	23:30	0	1	
11:45	5 17	8 29	23:45	1 1	0 2	3

Total Vol.	144	102	246	237	271	508
				Daily Totals		
				NB	SB	Combined
				381	373	754

	AM			PM		
Split %	58.5%	41.5%	32.6%	46.7%	53.3%	67.4%
Peak Hour	7:30	11:00	7:30	17:45	16:45	16:15
Volume	32	29	53	38	51	75
P.H.F.	0.80	0.91	0.70	0.90	0.71	0.72

ADT28 Kraemer Blvd from South City Limits to Orangethorpe Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	10	5	12:00	145	183
0:15	11	14	12:15	123	196
0:30	13	10	12:30	136	200
0:45	8 42	9 38	12:45	146 550	211 790
1:00	4	9	13:00	156	179
1:15	5	9	13:15	152	189
1:30	7	5	13:30	173	213
1:45	3 19	7 30	13:45	162 643	196 777
2:00	4	5	14:00	152	167
2:15	5	8	14:15	194	206
2:30	7	2	14:30	213	203
2:45	3 19	2 17	14:45	210 769	214 790
3:00	5	10	15:00	201	196
3:15	6	10	15:15	174	175
3:30	5	20	15:30	234	205
3:45	12 28	21 61	15:45	201 810	207 783
4:00	15	14	16:00	216	185
4:15	11	22	16:15	204	222
4:30	13	45	16:30	216	164
4:45	14 53	59 140	16:45	245 881	185 756
5:00	21	64	17:00	267	158
5:15	33	95	17:15	252	147
5:30	43	110	17:30	234	133
5:45	46 143	103 372	17:45	231 984	152 590
6:00	58	124	18:00	215	142
6:15	61	124	18:15	174	123
6:30	57	218	18:30	142	121
6:45	67 243	223 689	18:45	134 665	119 505
7:00	64	197	19:00	114	112
7:15	71	213	19:15	78	86
7:30	114	287	19:30	59	86
7:45	124 373	275 972	19:45	74 325	73 357
8:00	121	264	20:00	53	55
8:15	134	303	20:15	54	40
8:30	130	241	20:30	53	54
8:45	125 510	210 1018	20:45	56 216	29 178
9:00	121	187	21:00	53	35
9:15	117	178	21:15	45	21
9:30	104	168	21:30	51	32
9:45	135 477	151 684	21:45	47 196	32 120
10:00	117	148	22:00	42	21
10:15	124	137	22:15	41	25
10:30	120	132	22:30	37	27
10:45	122 483	174 591	22:45	24 144	14 87
11:00	132	156	23:00	15	18
11:15	142	174	23:15	20	26
11:30	124	229	23:30	25	13
11:45	134 532	196 755	23:45	19 79	12 69

Total Vol.	2922	5367	8289	6262	5802	12064
				Daily Totals		
				NB	SB	Combined
				9184	11169	20353

	AM			PM		
Split %	35.3%	64.7%	40.7%	51.9%	48.1%	59.3%
Peak Hour	11:15	7:30	7:30	16:45	14:15	15:30
Volume	545	1129	1622	998	819	1674
P.H.F.	0.94	0.93	0.93	0.95	0.96	0.95

ADT29 Kraemer Blvd from Crowther Ave to Chapman Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB						
0:00	15	9	12:00	102	123						
0:15	12	11	12:15	124	131						
0:30	10	5	12:30	115	126						
0:45	10	47	6	31	78	12:45	145	486	145	525	1011
1:00	7	2	13:00	142	162						
1:15	5	6	13:15	124	152						
1:30	9	3	13:30	104	208						
1:45	8	29	3	14	43	13:45	142	512	142	664	1176
2:00	4	5	14:00	134	145						
2:15	6	2	14:15	163	157						
2:30	2	6	14:30	142	160						
2:45	2	14	6	19	33	14:45	145	584	188	650	1234
3:00	4	8	15:00	152	156						
3:15	3	4	15:15	167	183						
3:30	7	12	15:30	194	178						
3:45	5	19	9	33	52	15:45	211	724	204	721	1445
4:00	5	8	16:00	205	186						
4:15	9	10	16:15	221	189						
4:30	8	18	16:30	245	216						
4:45	14	36	26	62	98	16:45	242	913	174	765	1678
5:00	15	33	17:00	231	156						
5:15	15	50	17:15	252	167						
5:30	24	56	17:30	224	152						
5:45	40	94	71	210	304	17:45	214	921	147	622	1543
6:00	34	89	18:00	204	156						
6:15	35	94	18:15	195	142						
6:30	52	123	18:30	156	123						
6:45	60	181	221	527	708	18:45	143	698	116	537	1235
7:00	76	242	19:00	124	95						
7:15	158	286	19:15	106	75						
7:30	164	324	19:30	101	90						
7:45	142	540	341	1193	1733	19:45	89	420	93	353	773
8:00	146	302	20:00	76	70						
8:15	194	286	20:15	54	63						
8:30	126	264	20:30	43	67						
8:45	104	570	232	1084	1654	20:45	56	229	54	254	483
9:00	94	214	21:00	53	53						
9:15	105	181	21:15	53	43						
9:30	116	170	21:30	32	45						
9:45	121	436	145	710	1146	21:45	40	178	36	177	355
10:00	105	152	22:00	39	32						
10:15	110	142	22:15	31	40						
10:30	91	113	22:30	34	24						
10:45	98	404	104	511	915	22:45	25	129	16	112	241
11:00	124	124	23:00	19	12						
11:15	116	137	23:15	21	11						
11:30	121	106	23:30	19	12						
11:45	106	467	114	481	948	23:45	14	73	6	41	114

Total Vol. 2837 4875 **7712** 5867 5421 **11288**

Daily Totals

NB	SB	Combined
8704	10296	19000

AM

PM

Split %	36.8%	63.2%	40.6%	52.0%	48.0%	59.4%
Peak Hour	7:30	7:15	7:30	16:30	15:45	16:30
Volume	646	1253	1899	970	795	1683
P.H.F.	0.83	0.92	0.97	0.97	0.92	0.91

ADT30 Kraemer Blvd from Chapman Ave to Fairway Lane.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	11	9	12:00	156	147
0:15	9	8	12:15	145	184
0:30	5	6	12:30	156	174
0:45	6 31	5 28	59 12:45	142 599	141 646
1:00	4	2	13:00	157	164
1:15	4	4	13:15	151	189
1:30	5	2	13:30	145	144
1:45	6 19	1 9	28 13:45	135 588	156 653
2:00	4	2	14:00	156	182
2:15	2	1	14:15	167	154
2:30	1	2	14:30	158	214
2:45	3 10	4 9	19 14:45	199 680	171 721
3:00	4	6	15:00	189	190
3:15	4	5	15:15	216	151
3:30	3	7	15:30	223	185
3:45	5 16	5 23	39 15:45	207 835	204 730
4:00	6	6	16:00	214	185
4:15	11	6	16:15	196	201
4:30	15	9	16:30	231	199
4:45	18 50	14 35	85 16:45	215 856	174 759
5:00	16	20	17:00	208	163
5:15	15	34	17:15	213	149
5:30	19	57	17:30	192	142
5:45	32 82	61 172	254 17:45	185 798	153 607
6:00	39	72	18:00	191	165
6:15	42	83	18:15	168	151
6:30	59	94	18:30	156	136
6:45	56 196	162 411	607 18:45	167 682	139 591
7:00	73	223	19:00	142	124
7:15	104	301	19:15	103	96
7:30	157	321	19:30	85	88
7:45	142 476	295 1140	1616 19:45	64 394	59 367
8:00	121	252	20:00	59	65
8:15	152	234	20:15	51	71
8:30	132	242	20:30	54	59
8:45	121 526	232 960	1486 20:45	53 217	63 258
9:00	104	184	21:00	59	42
9:15	113	183	21:15	60	43
9:30	94	173	21:30	46	32
9:45	97 408	142 682	1090 21:45	32 197	42 159
10:00	105	124	22:00	33	37
10:15	100	135	22:15	24	25
10:30	121	140	22:30	26	18
10:45	112 438	146 545	983 22:45	16 99	21 101
11:00	124	124	23:00	11	12
11:15	118	137	23:15	17	15
11:30	132	127	23:30	11	18
11:45	145 519	145 533	1052 23:45	13 52	10 55

Total Vol.	2771	4547	7318	5997	5647	11644
				Daily Totals		
				NB	SB	Combined
				8768	10194	18962

	AM			PM		
Split %	37.9%	62.1%	38.6%	51.5%	48.5%	61.4%
Peak Hour	11:45	7:15	7:15	16:30	15:45	15:45
Volume	602	1169	1693	867	789	1637
P.H.F.	0.96	0.91	0.89	0.93	0.97	0.95

ADT31 Kraemer Blvd from Fairway Lane to Yorba Linda Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB		
0:00	7		9		12:00	200		174		
0:15	6		8		12:15	163		202		
0:30	4		7		12:30	152		176		
0:45	3	20	4	28	48	12:45	188	703	187 739	1442
1:00	2		4		13:00	157		223		
1:15	1		3		13:15	174		202		
1:30	3		2		13:30	163		208		
1:45	3	9	2	11	20	13:45	184	678	167 800	1478
2:00	4		1		14:00	213		178		
2:15	2		4		14:15	202		173		
2:30	6		6		14:30	216		194		
2:45	3	15	2	13	28	14:45	194	825	216 761	1586
3:00	7		3		15:00	211		185		
3:15	7		2		15:15	234		193		
3:30	7		5		15:30	268		190		
3:45	5	26	3	13	39	15:45	273	986	189 757	1743
4:00	5		8		16:00	241		210		
4:15	11		8		16:15	256		215		
4:30	13		9		16:30	268		202		
4:45	23	52	10	35	87	16:45	235	1000	171 798	1798
5:00	18		14		17:00	252		203		
5:15	24		24		17:15	245		172		
5:30	33		36		17:30	214		189		
5:45	27	102	48	122	224	17:45	190	901	221 785	1686
6:00	37		50		18:00	203		193		
6:15	46		65		18:15	194		156		
6:30	59		109		18:30	155		163		
6:45	87	229	157	381	610	18:45	145	697	142 654	1351
7:00	109		174		19:00	132		110		
7:15	214		276		19:15	106		123		
7:30	234		301		19:30	85		104		
7:45	201	758	314	1065	1823	19:45	97	420	124 461	881
8:00	174		268		20:00	89		96		
8:15	157		254		20:15	64		76		
8:30	142		225		20:30	65		65		
8:45	121	594	204	951	1545	20:45	57	275	67 304	579
9:00	145		195		21:00	59		61		
9:15	169		162		21:15	52		72		
9:30	164		142		21:30	42		63		
9:45	140	618	143	642	1260	21:45	46	199	45 241	440
10:00	134		136		22:00	35		49		
10:15	111		124		22:15	32		42		
10:30	134		137		22:30	24		34		
10:45	157	536	164	561	1097	22:45	16	107	26 151	258
11:00	142		125		23:00	13		22		
11:15	125		153		23:15	15		16		
11:30	132		165		23:30	12		12		
11:45	153	552	145	588	1140	23:45	13	53	13 63	116

Total Vol.	3511	4410	7921		6844	6514		13358
					Daily Totals			
					NB	SB		Combined
					10355	10924		21279

	AM			PM		
Split %	44.3%	55.7%	37.2%	51.2%	48.8%	62.8%
Peak Hour	7:15	7:15	7:15	15:30	12:45	15:45
Volume	823	1159	1982	1038	820	1854
P.H.F.	0.88	0.92	0.93	0.94	0.92	0.98

ADT33 Kraemer Blvd from Bastanchury Road to North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB						
0:00	8	7	12:00	124	127						
0:15	7	6	12:15	130	142						
0:30	6	4	12:30	116	132						
0:45	5	26	4	21	47	12:45	111	481	107	508	989
1:00	4	4	13:00	125	126						
1:15	4	5	13:15	131	139						
1:30	2	2	13:30	120	118						
1:45	4	14	3	14	28	13:45	148	524	142	525	1049
2:00	2	2	14:00	136	132						
2:15	1	1	14:15	118	114						
2:30	2	2	14:30	174	134						
2:45	3	8	1	6	14	14:45	162	590	142	522	1112
3:00	3	2	15:00	164	156						
3:15	4	3	15:15	171	196						
3:30	5	2	15:30	195	164						
3:45	4	16	1	8	24	15:45	157	687	174	690	1377
4:00	4	3	16:00	187	203						
4:15	8	4	16:15	152	235						
4:30	8	9	16:30	144	214						
4:45	6	26	7	23	49	16:45	205	688	203	855	1543
5:00	9	6	17:00	198	196						
5:15	9	12	17:15	156	201						
5:30	14	18	17:30	171	174						
5:45	13	45	29	65	110	17:45	185	710	163	734	1444
6:00	22	46	18:00	198	176						
6:15	25	39	18:15	214	142						
6:30	52	64	18:30	163	132						
6:45	64	163	86	235	398	18:45	119	694	97	547	1241
7:00	96	159	19:00	96	120						
7:15	186	203	19:15	101	123						
7:30	157	184	19:30	82	85						
7:45	156	595	213	759	1354	19:45	75	354	75	403	757
8:00	142	156	20:00	71	64						
8:15	178	142	20:15	87	79						
8:30	152	156	20:30	63	57						
8:45	154	626	134	588	1214	20:45	45	266	43	243	509
9:00	132	115	21:00	32	50						
9:15	124	106	21:15	29	42						
9:30	94	108	21:30	37	32						
9:45	122	472	119	448	920	21:45	24	122	30	154	276
10:00	105	105	22:00	18	26						
10:15	103	99	22:15	21	16						
10:30	123	102	22:30	23	15						
10:45	105	436	117	423	859	22:45	17	79	15	72	151
11:00	114	124	23:00	13	16						
11:15	120	110	23:15	8	11						
11:30	104	104	23:30	13	8						
11:45	115	453	132	470	923	23:45	6	40	4	39	79

Total Vol.	2880	3060	5940	5235	5292	10527
				Daily Totals		
				NB	SB	Combined
				8115	8352	16467

	AM			PM		
Split %	48.5%	51.5%	36.1%	49.7%	50.3%	63.9%
Peak Hour	7:15	7:00	7:15	17:30	16:00	16:15
Volume	641	759	1397	768	855	1547
P.H.F.	0.86	0.89	0.90	0.95	0.91	0.95

ADT34 La Jolla St from Placentia Ave to Melrose Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	10		7		12:00	50		39		
0:15	7		3		12:15	31		32		
0:30	0		4		12:30	41		35		
0:45	7	24	3	17	12:45	32	154	40	146	300
1:00	4		0		13:00	48		40		
1:15	3		2		13:15	43		35		
1:30	2		1		13:30	51		48		
1:45	1	10	1	4	13:45	43	185	59	182	367
2:00	4		4		14:00	54		53		
2:15	1		1		14:15	67		69		
2:30	3		1		14:30	57		75		
2:45	0	8	1	7	14:45	56	234	59	256	490
3:00	3		1		15:00	57		57		
3:15	6		6		15:15	50		46		
3:30	4		5		15:30	59		60		
3:45	10	23	6	18	15:45	66	232	90	253	485
4:00	7		5		16:00	50		79		
4:15	2		6		16:15	58		70		
4:30	14		8		16:30	66		115		
4:45	18	41	28	47	16:45	64	238	67	331	569
5:00	15		15		17:00	70		74		
5:15	31		26		17:15	47		52		
5:30	38		32		17:30	68		52		
5:45	32	116	41	114	17:45	50	235	42	220	455
6:00	41		35		18:00	49		53		
6:15	32		39		18:15	43		54		
6:30	28		35		18:30	47		33		
6:45	24	125	39	148	18:45	47	186	36	176	362
7:00	31		44		19:00	40		24		
7:15	44		46		19:15	30		26		
7:30	57		60		19:30	29		26		
7:45	36	168	58	208	19:45	20	119	26	102	221
8:00	42		54		20:00	21		22		
8:15	43		39		20:15	31		21		
8:30	49		58		20:30	24		22		
8:45	45	179	46	197	20:45	32	108	17	82	190
9:00	42		29		21:00	22		17		
9:15	36		43		21:15	19		10		
9:30	20		39		21:30	24		15		
9:45	36	134	24	135	21:45	26	91	12	54	145
10:00	25		33		22:00	16		9		
10:15	28		23		22:15	17		11		
10:30	29		25		22:30	17		10		
10:45	31	113	26	107	22:45	8	58	8	38	96
11:00	34		47		23:00	12		5		
11:15	33		31		23:15	11		7		
11:30	43		34		23:30	11		10		
11:45	42	152	30	142	23:45	11	45	10	32	77

Total Vol.	1093	1144	2237		1885	1872		3757
					Daily Totals			Combined
					EB	WB		
					2978	3016		5994

	AM			PM		
Split %	48.9%	51.1%	37.3%	50.2%	49.8%	62.7%
Peak Hour	7:15	7:15	7:15	16:15	15:45	15:45
Volume	179	218	397	258	354	594
P.H.F.	0.79	0.91	0.85	0.95	0.77	0.82

ADT35 La Jolla St from Melrose Street to East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB	
0:00	1	5	12:00	30	31	
0:15	0	2	12:15	36	20	
0:30	0	0	12:30	31	43	
0:45	0	1 3	10 11	12:45	39 136 31 125	261
1:00	0	0	13:00	38	30	
1:15	2	0	13:15	46	37	
1:30	0	1	13:30	50	73	
1:45	6	8 3 4	12 13:45	37 171 42 182	353	
2:00	3	0	14:00	44	38	
2:15	1	1	14:15	31	40	
2:30	0	1	14:30	34	51	
2:45	5	9 0 2	11 14:45	46 155 44 173	328	
3:00	6	6	15:00	38	48	
3:15	2	6	15:15	52	35	
3:30	4	4	15:30	66	47	
3:45	19	31 1 17	48 15:45	33 189 65 195	384	
4:00	11	11	16:00	29	54	
4:15	8	2	16:15	30	51	
4:30	26	6	16:30	41	83	
4:45	63	108 14 33	141 16:45	19 119 53 241	360	
5:00	31	14	17:00	21	39	
5:15	30	11	17:15	22	41	
5:30	59	7	17:30	14	56	
5:45	90	210 15 47	257 17:45	27 84 35 171	255	
6:00	62	12	18:00	26	30	
6:15	44	13	18:15	20	55	
6:30	47	16	18:30	9	18	
6:45	73	226 20 61	287 18:45	11 66 13 116	182	
7:00	48	23	19:00	12	14	
7:15	81	21	19:15	12	10	
7:30	83	40	19:30	10	9	
7:45	75	287 28 112	399 19:45	10 44 13 46	90	
8:00	68	29	20:00	7	11	
8:15	58	33	20:15	5	9	
8:30	111	54	20:30	5	9	
8:45	64	301 38 154	455 20:45	5 22 3 32	54	
9:00	39	18	21:00	2	5	
9:15	28	27	21:15	6	9	
9:30	40	26	21:30	2	11	
9:45	22	129 20 91	220 21:45	6 16 3 28	44	
10:00	30	22	22:00	3	10	
10:15	31	15	22:15	4	5	
10:30	23	25	22:30	6	18	
10:45	26	110 19 81	191 22:45	2 15 7 40	55	
11:00	23	23	23:00	5	5	
11:15	29	32	23:15	3	5	
11:30	30	33	23:30	1	4	
11:45	31	113 29 117	230 23:45	1 10 12 26	36	

Total Vol.	1533	729	2262	1027	1375	2402
				Daily Totals		
				EB	WB	Combined
				2560	2104	4664

	AM			PM		
Split %	67.8%	32.2%	48.5%	42.8%	57.2%	51.5%
Peak Hour	7:45	8:00	7:45	14:45	15:45	15:45
Volume	312	154	456	202	253	386
P.H.F.	0.70	0.71	0.69	0.90	0.76	0.78

ADT36 Lakeview Ave from South City Limit to North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	9	8	12:00	92	136
0:15	7	3	12:15	113	111
0:30	9	7	12:30	117	117
0:45	4 29	6 24	12:45	107 429	105 469
1:00	5	7	13:00	111	144
1:15	4	6	13:15	95	131
1:30	5	2	13:30	92	95
1:45	4 18	6 21	13:45	91 389	112 482
2:00	3	2	14:00	105	125
2:15	2	3	14:15	93	116
2:30	2	1	14:30	94	120
2:45	1 8	2 8	14:45	126 418	134 495
3:00	3	2	15:00	117	108
3:15	4	1	15:15	113	84
3:30	2	4	15:30	125	112
3:45	4 13	4 11	15:45	130 485	133 437
4:00	4	5	16:00	153	138
4:15	2	13	16:15	141	157
4:30	4	19	16:30	149	141
4:45	7 17	23 60	16:45	134 577	123 559
5:00	10	37	17:00	146	135
5:15	11	43	17:15	159	133
5:30	14	45	17:30	151	141
5:45	13 48	55 180	17:45	133 589	131 540
6:00	16	76	18:00	151	112
6:15	23	85	18:15	142	96
6:30	44	126	18:30	122	103
6:45	55 138	144 431	18:45	136 551	85 396
7:00	54	203	19:00	114	93
7:15	58	197	19:15	95	102
7:30	70	226	19:30	75	86
7:45	115 297	218 844	19:45	85 369	64 345
8:00	110	196	20:00	65	75
8:15	118	158	20:15	75	59
8:30	115	185	20:30	83	40
8:45	104 447	173 712	20:45	71 294	47 221
9:00	80	156	21:00	53	42
9:15	98	126	21:15	42	42
9:30	79	128	21:30	64	32
9:45	88 345	136 546	21:45	45 204	42 158
10:00	79	99	22:00	25	32
10:15	66	140	22:15	26	28
10:30	77	122	22:30	22	21
10:45	83 305	87 448	22:45	11 84	18 99
11:00	73	107	23:00	12	10
11:15	97	85	23:15	15	10
11:30	107	130	23:30	7	8
11:45	103 380	116 438	23:45	13 47	6 34

Total Vol.	2045	3723	5768	4436	4235	8671
				Daily Totals		
				NB	SB	Combined
				6481	7958	14439

	AM			PM		
Split %	35.5%	64.5%	39.9%	51.2%	48.8%	60.1%
Peak Hour	7:45	7:00	7:45	17:15	15:45	15:45
Volume	458	844	1215	594	569	1142
P.H.F.	0.97	0.93	0.91	0.91	0.91	0.96

ADT37 Linda Vista St from Rose Dr to Yorba Linda Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	0	0	12:00	14	11
0:15	0	0	12:15	11	9
0:30	1	1	12:30	13	14
0:45	0 1	0 1	12:45	5 43	10 44
1:00	0	0	13:00	7	16
1:15	1	0	13:15	12	15
1:30	0	0	13:30	15	8
1:45	1 2	0 0	13:45	11 45	22 61
2:00	0	3	14:00	11	6
2:15	0	0	14:15	15	19
2:30	0	0	14:30	14	39
2:45	1 1	0 3	14:45	23 63	9 73
3:00	0	0	15:00	13	16
3:15	0	1	15:15	16	7
3:30	0	1	15:30	13	23
3:45	0 0	2 4	15:45	17 59	25 71
4:00	1	2	16:00	19	15
4:15	0	1	16:15	28	31
4:30	1	1	16:30	20	14
4:45	0 2	1 5	16:45	14 81	11 71
5:00	0	4	17:00	23	20
5:15	2	1	17:15	17	11
5:30	0	4	17:30	9	22
5:45	1 3	10 19	17:45	17 66	13 66
6:00	1	8	18:00	5	10
6:15	3	9	18:15	10	20
6:30	2	11	18:30	7	12
6:45	5 11	21 49	18:45	8 30	8 50
7:00	1	16	19:00	8	11
7:15	9	16	19:15	9	9
7:30	7	32	19:30	4	2
7:45	6 23	31 95	19:45	4 25	7 29
8:00	15	25	20:00	4	11
8:15	4	22	20:15	6	8
8:30	11	16	20:30	1	3
8:45	9 39	12 75	20:45	5 16	8 30
9:00	9	14	21:00	4	5
9:15	9	16	21:15	2	4
9:30	9	15	21:30	1	2
9:45	11 38	15 60	21:45	2 9	1 12
10:00	14	18	22:00	4	4
10:15	16	20	22:15	4	1
10:30	7	25	22:30	2	1
10:45	8 45	17 80	22:45	0 10	0 6
11:00	9	15	23:00	1	1
11:15	10	20	23:15	1	1
11:30	11	16	23:30	4	3
11:45	8 38	10 61	23:45	0 6	1 6

Total Vol.	203	452	655	453	519	972
				Daily Totals		
				NB	SB	Combined
				656	971	1627

	AM			PM		
Split %	31.0%	69.0%	40.3%	46.6%	53.4%	59.7%
Peak Hour	9:30	7:30	7:30	16:15	15:30	15:30
Volume	50	110	142	85	94	171
P.H.F.	0.78	0.86	0.89	0.68	0.76	0.72

ADT38 Livingston Ave from Clark Ave to Kraemer Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	0	0	12:00	5	3
0:15	3	3	12:15	6	8
0:30	0	0	12:30	9	3
0:45	0	3	12:45	9	29
		1	3	17	46
1:00	0	0	13:00	10	7
1:15	2	0	13:15	12	12
1:30	0	0	13:30	3	9
1:45	0	2	13:45	12	37
		0	5	33	70
2:00	0	0	14:00	4	2
2:15	0	0	14:15	4	7
2:30	0	0	14:30	15	3
2:45	0	0	14:45	4	27
		0	1	13	40
3:00	0	0	15:00	6	10
3:15	0	0	15:15	11	5
3:30	0	0	15:30	11	5
3:45	1	1	15:45	15	43
		0	6	26	69
4:00	0	0	16:00	10	10
4:15	2	0	16:15	14	11
4:30	1	0	16:30	13	5
4:45	1	4	16:45	9	46
		1	5	31	77
5:00	0	0	17:00	12	8
5:15	0	0	17:15	8	9
5:30	2	0	17:30	8	9
5:45	3	5	17:45	11	39
		3	6	32	71
6:00	2	1	18:00	14	9
6:15	0	2	18:15	11	10
6:30	2	0	18:30	3	6
6:45	0	4	18:45	9	37
		3	4	29	66
7:00	6	7	19:00	11	5
7:15	6	2	19:15	6	2
7:30	12	7	19:30	5	3
7:45	11	35	19:45	4	26
		19	7	17	43
8:00	8	1	20:00	4	2
8:15	2	3	20:15	2	3
8:30	8	2	20:30	4	7
8:45	5	23	20:45	11	21
		3	6	18	39
9:00	6	4	21:00	4	10
9:15	4	8	21:15	4	3
9:30	1	4	21:30	6	2
9:45	7	18	21:45	3	17
		0	5	20	37
10:00	6	12	22:00	0	1
10:15	6	13	22:15	2	4
10:30	8	6	22:30	3	3
10:45	5	25	22:45	2	7
		5	2	10	17
11:00	8	3	23:00	1	0
11:15	5	2	23:15	2	1
11:30	11	9	23:30	0	1
11:45	9	33	23:45	0	3
		7	0	2	5

Total Vol.	153	131	284	332	248	580
				Daily Totals		
				EB	WB	Combined
				485	379	864

	AM			PM		
Split %	53.9%	46.1%	32.9%	57.2%	42.8%	67.1%
Peak Hour	7:15	10:00	7:00	15:45	17:30	15:45
Volume	37	36	70	52	34	84
P.H.F.	0.77	0.69	0.58	0.88	0.85	0.84

ADT39 Madison Ave between West City Limit and Kraemer Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB						
0:00	1	4	12:00	40	44						
0:15	5	1	12:15	45	39						
0:30	4	3	12:30	46	40						
0:45	2	12	3	11	23	12:45	63	194	53	176	370
1:00	0	4	13:00	69	63						
1:15	1	2	13:15	51	60						
1:30	2	0	13:30	48	66						
1:45	1	4	1	7	11	13:45	40	208	40	229	437
2:00	1	0	14:00	37	47						
2:15	1	2	14:15	46	49						
2:30	3	3	14:30	95	59						
2:45	0	5	0	5	10	14:45	58	236	84	239	475
3:00	0	0	15:00	88	70						
3:15	1	1	15:15	96	68						
3:30	6	1	15:30	145	62						
3:45	5	12	2	4	16	15:45	67	396	68	268	664
4:00	0	2	16:00	94	66						
4:15	3	3	16:15	71	52						
4:30	10	6	16:30	96	77						
4:45	15	28	3	14	42	16:45	93	354	86	281	635
5:00	8	6	17:00	88	76						
5:15	11	7	17:15	75	91						
5:30	11	11	17:30	61	71						
5:45	13	43	10	34	77	17:45	68	292	60	298	590
6:00	13	15	18:00	55	55						
6:15	14	11	18:15	55	43						
6:30	18	11	18:30	45	44						
6:45	28	73	12	49	122	18:45	71	226	43	185	411
7:00	38	27	19:00	48	46						
7:15	54	54	19:15	47	36						
7:30	73	44	19:30	39	22						
7:45	64	229	77	202	431	19:45	25	159	20	124	283
8:00	62	63	20:00	20	14						
8:15	42	68	20:15	30	28						
8:30	69	52	20:30	21	15						
8:45	88	261	129	312	573	20:45	20	91	24	81	172
9:00	126	128	21:00	23	34						
9:15	70	52	21:15	22	21						
9:30	36	27	21:30	22	12						
9:45	34	266	45	252	518	21:45	10	77	13	80	157
10:00	37	34	22:00	15	18						
10:15	36	26	22:15	13	7						
10:30	37	38	22:30	4	8						
10:45	48	158	32	130	288	22:45	8	40	4	37	77
11:00	33	36	23:00	8	11						
11:15	37	26	23:15	4	9						
11:30	53	29	23:30	7	3						
11:45	43	166	45	136	302	23:45	7	26	4	27	53

Total Vol.	1257	1156	2413	2299	2025	4324
				Daily Totals		Combined
				EB	WB	
				3556	3181	6737

	AM			PM		
Split %	52.1%	47.9%	35.8%	53.2%	46.8%	64.2%
Peak Hour	8:30	8:15	8:30	15:15	16:30	16:30
Volume	353	377	714	402	330	682
P.H.F.	0.70	0.73	0.70	0.65	0.91	0.95

ADT40 McCormack Lane from Yorba Linda Blvd to Bastanchury Road.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	3	2	12:00	6	6
0:15	1	0	12:15	10	7
0:30	1	1	12:30	11	12
0:45	0 5	1 4	12:45	14 41	11 36
1:00	3	0	13:00	8	14
1:15	0	1	13:15	6	13
1:30	0	1	13:30	8	20
1:45	0 3	0 2	13:45	7 29	11 58
2:00	1	1	14:00	16	9
2:15	2	1	14:15	15	19
2:30	2	0	14:30	23	16
2:45	0 5	0 2	14:45	15 69	10 54
3:00	0	0	15:00	13	7
3:15	0	0	15:15	28	16
3:30	0	0	15:30	20	15
3:45	0 0	0 0	15:45	15 76	12 50
4:00	0	0	16:00	11	16
4:15	0	0	16:15	23	21
4:30	1	1	16:30	14	9
4:45	0 1	1 2	16:45	16 64	19 65
5:00	0	0	17:00	17	19
5:15	0	1	17:15	23	16
5:30	2	0	17:30	20	10
5:45	2 4	1 2	17:45	22 82	22 67
6:00	2	11	18:00	17	15
6:15	0	4	18:15	22	12
6:30	1	3	18:30	15	15
6:45	1 4	3 21	18:45	12 66	23 65
7:00	3	1	19:00	21	17
7:15	1	7	19:15	19	13
7:30	8	6	19:30	16	13
7:45	6 18	11 25	19:45	17 73	15 58
8:00	11	8	20:00	7	9
8:15	17	18	20:15	13	9
8:30	18	25	20:30	10	7
8:45	13 59	33 84	20:45	6 36	6 31
9:00	15	14	21:00	16	5
9:15	14	22	21:15	9	5
9:30	14	12	21:30	14	3
9:45	11 54	19 67	21:45	15 54	9 22
10:00	8	10	22:00	5	3
10:15	12	14	22:15	3	8
10:30	15	13	22:30	10	1
10:45	8 43	11 48	22:45	3 21	3 15
11:00	10	11	23:00	5	2
11:15	9	14	23:15	1	3
11:30	18	15	23:30	3	1
11:45	10 47	8 48	23:45	2 11	0 6

Total Vol.	243	305	548	622	527	1149
				Daily Totals		
				NB	SB	Combined
				865	832	1697

	AM			PM		
Split %	44.3%	55.7%	32.3%	54.1%	45.9%	67.7%
Peak Hour	8:15	8:30	8:30	17:00	16:15	17:00
Volume	63	94	154	82	68	149
P.H.F.	0.88	0.71	0.84	0.87	0.81	0.85

ADT41 McCormack Lane between Bastanchury Road and Golden Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	0	0	12:00	2	3
0:15	0	0	12:15	8	12
0:30	0	0	12:30	2	7
0:45	1 1	0 0	12:45	6 18	2 24
1:00	1	1	13:00	12	11
1:15	2	0	13:15	7	29
1:30	0	0	13:30	6	7
1:45	0 3	0 1	13:45	3 28	8 55
2:00	0	0	14:00	1	5
2:15	0	1	14:15	9	9
2:30	0	0	14:30	11	9
2:45	1 1	0 1	14:45	9 30	8 31
3:00	1	1	15:00	6	5
3:15	0	0	15:15	7	5
3:30	0	0	15:30	11	8
3:45	0 1	0 1	15:45	9 33	4 22
4:00	0	0	16:00	7	7
4:15	0	0	16:15	5	7
4:30	1	0	16:30	13	6
4:45	0 1	0 0	16:45	9 34	10 30
5:00	0	0	17:00	7	9
5:15	2	1	17:15	8	6
5:30	2	0	17:30	9	8
5:45	1 5	3 4	17:45	7 31	4 27
6:00	2	1	18:00	4	6
6:15	2	0	18:15	5	3
6:30	1	1	18:30	5	10
6:45	2 7	3 5	18:45	7 21	6 25
7:00	5	5	19:00	9	4
7:15	7	13	19:15	6	5
7:30	24	26	19:30	5	4
7:45	7 43	18 62	19:45	2 22	2 15
8:00	4	6	20:00	3	3
8:15	6	3	20:15	3	2
8:30	7	10	20:30	4	3
8:45	6 23	7 26	20:45	3 13	3 11
9:00	5	5	21:00	2	1
9:15	10	4	21:15	2	1
9:30	9	5	21:30	2	0
9:45	3 27	5 19	21:45	1 7	2 4
10:00	2	8	22:00	4	2
10:15	5	2	22:15	2	0
10:30	2	1	22:30	1	0
10:45	8 17	2 13	22:45	1 8	1 3
11:00	2	3	23:00	0	0
11:15	4	4	23:15	0	0
11:30	2	3	23:30	0	1
11:45	4 12	5 15	23:45	0 0	0 1

Total Vol.	141	147	288	245	248	493
				Daily Totals		Combined
				NB	SB	
				386	395	781

	AM			PM		
Split %	49.0%	51.0%	36.9%	49.7%	50.3%	63.1%
Peak Hour	7:00	7:15	7:00	16:30	13:00	13:00
Volume	43	63	105	37	55	83
P.H.F.	0.45	0.61	0.53	0.69	0.47	0.58

ADT42 Melrose St from South City Limit to La Jolla St.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	11	4	12:00	77	98
0:15	7	4	12:15	75	96
0:30	8	1	12:30	73	101
0:45	9 35	2 11	12:45	62 287	98 393
1:00	5	5	13:00	83	86
1:15	2	2	13:15	85	93
1:30	2	1	13:30	98	122
1:45	3 12	2 10	13:45	96 362	109 410
2:00	3	3	14:00	104	71
2:15	2	1	14:15	97	108
2:30	2	3	14:30	133	123
2:45	1 8	2 9	14:45	102 436	110 412
3:00	1	7	15:00	145	85
3:15	3	7	15:15	130	65
3:30	10	14	15:30	158	161
3:45	12 26	20 48	15:45	118 551	129 440
4:00	3	21	16:00	135	94
4:15	11	52	16:15	106	80
4:30	12	73	16:30	161	114
4:45	27 53	124 270	16:45	111 513	93 381
5:00	14	99	17:00	119	80
5:15	15	102	17:15	95	76
5:30	35	105	17:30	90	80
5:45	49 113	160 466	17:45	88 392	68 304
6:00	30	112	18:00	77	56
6:15	30	89	18:15	64	52
6:30	43	101	18:30	50	47
6:45	58 161	142 444	18:45	40 231	36 191
7:00	54	112	19:00	43	31
7:15	62	126	19:15	33	15
7:30	54	127	19:30	21	23
7:45	88 258	136 501	19:45	29 126	29 98
8:00	83	154	20:00	25	26
8:15	97	136	20:15	27	17
8:30	92	159	20:30	14	20
8:45	55 327	133 582	20:45	13 79	17 80
9:00	51	99	21:00	15	21
9:15	56	80	21:15	15	14
9:30	58	98	21:30	16	20
9:45	55 220	70 347	21:45	10 56	33 88
10:00	46	89	22:00	12	21
10:15	74	80	22:15	11	10
10:30	56	66	22:30	11	18
10:45	68 244	60 295	22:45	14 48	9 58
11:00	73	86	23:00	5	9
11:15	61	102	23:15	9	6
11:30	60	90	23:30	13	5
11:45	83 277	83 361	23:45	12 39	12 32

Total Vol.	1734	3344	5078	3120	2887	6007
				Daily Totals		
				NB	SB	Combined
				4854	6231	11085

	AM			PM		
Split %	34.1%	65.9%	45.8%	51.9%	48.1%	54.2%
Peak Hour	7:45	7:45	7:45	15:00	15:30	15:00
Volume	360	585	945	551	464	991
P.H.F.	0.93	0.92	0.94	0.94	0.72	0.78

ADT43 Melrose St from La Jolla St Orangethorpe Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	11	6	12:00	90	91
0:15	8	5	12:15	89	103
0:30	8	2	12:30	86	97
0:45	11 38	1 14	12:45	82 347	101 392
1:00	6	6	13:00	102	98
1:15	2	4	13:15	97	84
1:30	3	2	13:30	129	94
1:45	4 15	5 17	13:45	111 439	124 400
2:00	2	7	14:00	114	115
2:15	2	2	14:15	125	121
2:30	4	4	14:30	176	133
2:45	3 11	7 20	14:45	109 524	124 493
3:00	6	7	15:00	170	115
3:15	7	8	15:15	143	103
3:30	12	18	15:30	166	163
3:45	6 31	36 69	15:45	169 648	124 505
4:00	10	25	16:00	160	109
4:15	8	56	16:15	104	99
4:30	18	81	16:30	189	100
4:45	29 65	164 326	16:45	150 603	93 401
5:00	18	113	17:00	145	106
5:15	25	118	17:15	113	70
5:30	42	140	17:30	111	90
5:45	57 142	207 578	17:45	97 466	84 350
6:00	44	136	18:00	84	73
6:15	43	109	18:15	74	58
6:30	58	130	18:30	61	43
6:45	68 213	176 551	18:45	50 269	49 223
7:00	66	142	19:00	59	38
7:15	80	160	19:15	49	33
7:30	78	144	19:30	27	33
7:45	123 347	177 623	19:45	41 176	44 148
8:00	127	181	20:00	39	31
8:15	121	161	20:15	34	22
8:30	101	175	20:30	27	28
8:45	65 414	142 659	20:45	18 118	28 109
9:00	70	119	21:00	20	26
9:15	74	104	21:15	18	19
9:30	80	103	21:30	23	27
9:45	59 283	81 407	21:45	16 77	37 109
10:00	59	106	22:00	19	27
10:15	87	88	22:15	12	18
10:30	73	82	22:30	20	19
10:45	78 297	77 353	22:45	18 69	14 78
11:00	85	96	23:00	8	8
11:15	73	112	23:15	13	2
11:30	99	105	23:30	11	9
11:45	99 356	102 415	23:45	19 51	13 32

Total Vol.	2212	4032	6244	3787	3240	7027
				Daily Totals		
				NB	SB	Combined
				5999	7272	13271

	AM			PM		
Split %	35.4%	64.6%	47.0%	53.9%	46.1%	53.0%
Peak Hour	7:45	7:45	7:45	15:00	14:45	15:00
Volume	472	694	1166	648	505	1153
P.H.F.	0.93	0.96	0.95	0.95	0.77	0.88

ADT44 Melrose St from Orangethorpe Ave to Crowther Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	1	5	12:00	62	91
0:15	6	2	12:15	63	62
0:30	3	1	12:30	54	66
0:45	1 11	4 12	12:45	65 244	79 298
1:00	2	3	13:00	63	68
1:15	1	4	13:15	59	83
1:30	2	1	13:30	69	88
1:45	1 6	1 9	13:45	51 242	63 302
2:00	3	0	14:00	65	58
2:15	1	5	14:15	80	60
2:30	2	1	14:30	101	125
2:45	0 6	1 7	14:45	88 334	76 319
3:00	3	0	15:00	94	78
3:15	1	4	15:15	111	85
3:30	3	6	15:30	110	184
3:45	6 13	9 19	15:45	90 405	113 460
4:00	1	6	16:00	99	103
4:15	4	7	16:15	85	73
4:30	12	12	16:30	105	102
4:45	17 34	17 42	16:45	105 394	78 356
5:00	18	32	17:00	93	101
5:15	20	24	17:15	83	64
5:30	38	37	17:30	68	73
5:45	38 114	40 133	17:45	58 302	74 312
6:00	21	37	18:00	66	64
6:15	21	49	18:15	48	60
6:30	28	62	18:30	52	39
6:45	37 107	70 218	18:45	42 208	45 208
7:00	59	72	19:00	59	39
7:15	50	111	19:15	29	40
7:30	52	99	19:30	32	39
7:45	81 242	115 397	19:45	28 148	31 149
8:00	109	100	20:00	36	36
8:15	110	111	20:15	27	32
8:30	58	136	20:30	12	30
8:45	44 321	72 419	20:45	19 94	32 130
9:00	34	53	21:00	25	22
9:15	46	58	21:15	9	16
9:30	42	79	21:30	13	20
9:45	42 164	56 246	21:45	21 68	20 78
10:00	40	48	22:00	17	23
10:15	42	45	22:15	11	14
10:30	60	52	22:30	18	14
10:45	57 199	55 200	22:45	8 54	10 61
11:00	52	40	23:00	4	18
11:15	54	72	23:15	9	5
11:30	61	78	23:30	7	10
11:45	56 223	69 259	23:45	11 31	5 38

Total Vol.	1440	1961	3401	2524	2711	5235
				Daily Totals		
				NB	SB	Combined
				3964	4672	8636

	AM			PM		
Split %	42.3%	57.7%	39.4%	48.2%	51.8%	60.6%
Peak Hour	7:45	7:45	7:45	15:15	15:15	15:15
Volume	358	462	820	410	485	895
P.H.F.	0.81	0.85	0.93	0.90	0.66	0.76

ADT45 Melrose St from Crowther Ave to Santa Fe Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	0	3	12:00	47	68
0:15	5	3	12:15	43	48
0:30	2	1	12:30	40	46
0:45	0 7	2 9	12:45	47 177	82 244
1:00	1	3	13:00	46	40
1:15	0	0	13:15	36	58
1:30	0	0	13:30	44	64
1:45	0 1	2 5	13:45	35 161	53 215
2:00	2	0	14:00	40	38
2:15	1	0	14:15	54	49
2:30	1	1	14:30	73	80
2:45	0 4	1 2	14:45	66 233	59 226
3:00	2	0	15:00	78	51
3:15	0	3	15:15	80	62
3:30	3	4	15:30	87	157
3:45	0 5	7 14	15:45	76 321	88 358
4:00	1	4	16:00	77	60
4:15	2	6	16:15	73	49
4:30	4	9	16:30	76	71
4:45	3 10	23 42	16:45	72 298	62 242
5:00	5	19	17:00	78	64
5:15	7	17	17:15	65	52
5:30	13	30	17:30	57	63
5:45	7 32	31 97	17:45	48 248	59 238
6:00	5	31	18:00	53	44
6:15	9	28	18:15	42	55
6:30	12	47	18:30	39	36
6:45	17 43	54 160	18:45	29 163	39 174
7:00	43	61	19:00	39	38
7:15	37	78	19:15	27	28
7:30	31	77	19:30	24	31
7:45	61 172	81 297	19:45	20 110	36 133
8:00	85	87	20:00	29	29
8:15	96	99	20:15	21	33
8:30	46	94	20:30	9	26
8:45	32 259	58 338	20:45	27 86	24 112
9:00	22	41	21:00	19	19
9:15	37	43	21:15	7	17
9:30	18	45	21:30	10	15
9:45	24 101	33 162	21:45	13 49	16 67
10:00	27	42	22:00	15	18
10:15	30	32	22:15	6	11
10:30	41	45	22:30	10	11
10:45	37 135	33 152	22:45	9 40	6 46
11:00	42	35	23:00	3	5
11:15	34	46	23:15	2	4
11:30	46	55	23:30	5	3
11:45	41 163	54 190	23:45	8 18	4 16

Total Vol.	932	1468	2400	1904	2071	3975
				Daily Totals		
				NB	SB	Combined
				2836	3539	6375

	AM			PM		
Split %	38.8%	61.2%	37.6%	47.9%	52.1%	62.4%
Peak Hour	7:45	7:45	7:45	15:00	15:15	15:15
Volume	288	361	649	321	367	687
P.H.F.	0.75	0.91	0.83	0.95	0.58	0.70

ADT46 Miraloma Ave between Van Buren and Richfield Road.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	0		3		12:00	44		50		
0:15	4		0		12:15	35		41		
0:30	2		2		12:30	40		33		
0:45	1	7	1	6	12:45	30	149	40	164	313
1:00	3		2		13:00	39		55		
1:15	1		3		13:15	39		39		
1:30	4		0		13:30	36		48		
1:45	2	10	1	6	13:45	43	157	36	178	335
2:00	2		3		14:00	42		59		
2:15	3		0		14:15	28		46		
2:30	0		1		14:30	40		71		
2:45	2	7	1	5	14:45	66	176	36	212	388
3:00	1		1		15:00	48		55		
3:15	0		0		15:15	42		32		
3:30	1		0		15:30	51		88		
3:45	3	5	1	2	15:45	62	203	53	228	431
4:00	2		2		16:00	60		66		
4:15	4		3		16:15	66		45		
4:30	11		3		16:30	59		61		
4:45	18	35	8	16	16:45	69	254	49	221	475
5:00	10		12		17:00	62		53		
5:15	21		7		17:15	59		41		
5:30	27		21		17:30	59		39		
5:45	34	92	22	62	17:45	39	219	25	158	377
6:00	24		27		18:00	25		28		
6:15	24		28		18:15	29		24		
6:30	27		25		18:30	27		16		
6:45	34	109	29	109	18:45	17	98	16	84	182
7:00	36		33		19:00	12		11		
7:15	26		31		19:15	9		9		
7:30	30		42		19:30	13		8		
7:45	51	143	64	170	19:45	6	40	7	35	75
8:00	33		70		20:00	9		8		
8:15	46		34		20:15	4		2		
8:30	35		36		20:30	6		10		
8:45	49	163	46	186	20:45	7	26	9	29	55
9:00	18		29		21:00	8		4		
9:15	32		34		21:15	9		13		
9:30	38		31		21:30	7		7		
9:45	32	120	22	116	21:45	4	28	10	34	62
10:00	45		29		22:00	6		3		
10:15	36		22		22:15	3		7		
10:30	35		41		22:30	4		1		
10:45	37	153	32	124	22:45	4	17	3	14	31
11:00	41		37		23:00	3		7		
11:15	21		40		23:15	8		4		
11:30	31		45		23:30	5		0		
11:45	40	133	42	164	23:45	1	17	7	18	35

Total Vol.	977	966	1943		1384	1375	2759
					Daily Totals		Combined
					EB	WB	
					2361	2341	4702

	AM			PM		
Split %	50.3%	49.7%	41.3%	50.2%	49.8%	58.7%
Peak Hour	7:45	7:30	7:30	16:15	15:30	15:30
Volume	165	210	370	256	252	491
P.H.F.	0.81	0.75	0.80	0.95	0.72	0.88

ADT47 Miraloma Ave between Richfield Road and Fee Ana Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	1	1	12:00	33	43
0:15	0	1	12:15	33	33
0:30	2	0	12:30	31	20
0:45	0 3	0 2	12:45	15 112	31 127
1:00	2	1	13:00	28	29
1:15	0	2	13:15	33	22
1:30	5	0	13:30	32	33
1:45	2 9	4 7	13:45	40 133	28 112
2:00	3	1	14:00	31	43
2:15	2	0	14:15	22	31
2:30	1	1	14:30	42	55
2:45	0 6	1 3	14:45	37 132	30 159
3:00	3	1	15:00	29	30
3:15	0	0	15:15	24	27
3:30	2	0	15:30	36	60
3:45	4 9	2 3	15:45	47 136	39 156
4:00	2	1	16:00	38	44
4:15	4	4	16:15	37	31
4:30	5	4	16:30	50	44
4:45	19 30	8 17	16:45	41 166	36 155
5:00	8	13	17:00	45	46
5:15	22	12	17:15	44	31
5:30	13	23	17:30	35	25
5:45	26 69	23 71	17:45	30 154	23 125
6:00	18	18	18:00	15	21
6:15	25	20	18:15	16	20
6:30	19	18	18:30	23	12
6:45	35 97	23 79	18:45	11 65	12 65
7:00	29	29	19:00	14	11
7:15	19	20	19:15	5	10
7:30	28	35	19:30	7	5
7:45	39 115	51 135	19:45	4 30	3 29
8:00	25	44	20:00	7	4
8:15	28	26	20:15	6	3
8:30	38	24	20:30	5	6
8:45	36 127	44 138	20:45	5 23	8 21
9:00	25	25	21:00	9	5
9:15	22	30	21:15	3	13
9:30	31	22	21:30	8	7
9:45	24 102	20 97	21:45	3 23	12 37
10:00	27	26	22:00	1	4
10:15	25	16	22:15	2	2
10:30	31	27	22:30	4	1
10:45	33 116	22 91	22:45	6 13	0 7
11:00	39	26	23:00	3	6
11:15	13	36	23:15	2	2
11:30	26	42	23:30	2	0
11:45	26 104	24 128	23:45	0 7	0 8

Total Vol.	787	771	1558	994	1001	1995
				Daily Totals		
				EB	WB	Combined
				1781	1772	3553

	AM			PM		
Split %	50.5%	49.5%	43.9%	49.8%	50.2%	56.1%
Peak Hour	7:45	7:30	7:30	16:30	15:30	16:30
Volume	130	156	276	180	174	337
P.H.F.	0.83	0.76	0.77	0.91	0.73	0.90

ADT48 Miraloma Ave between Fee Ana Street and Lakeview Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	1	1	12:00	32	49
0:15	1	1	12:15	35	46
0:30	2	0	12:30	38	21
0:45	0 4	0 2	12:45	26 131	36 152
1:00	2	1	13:00	35	35
1:15	3	2	13:15	36	22
1:30	5	0	13:30	43	33
1:45	1 11	2 5	13:45	45 159	22 112
2:00	3	0	14:00	47	41
2:15	2	0	14:15	38	34
2:30	1	1	14:30	55	53
2:45	0 6	2 3	14:45	40 180	35 163
3:00	2	1	15:00	37	35
3:15	0	1	15:15	39	25
3:30	4	0	15:30	62	56
3:45	3 9	3 5	15:45	59 197	38 154
4:00	3	7	16:00	51	44
4:15	2	13	16:15	44	33
4:30	4	11	16:30	59	50
4:45	13 22	22 53	16:45	44 198	38 165
5:00	8	28	17:00	50	40
5:15	15	18	17:15	53	32
5:30	12	29	17:30	37	28
5:45	38 73	37 112	17:45	32 172	21 121
6:00	34	22	18:00	24	19
6:15	30	27	18:15	19	23
6:30	35	18	18:30	23	14
6:45	46 145	32 99	18:45	16 82	12 68
7:00	33	33	19:00	15	13
7:15	32	29	19:15	6	8
7:30	35	46	19:30	12	8
7:45	40 140	64 172	19:45	6 39	5 34
8:00	35	59	20:00	8	4
8:15	22	34	20:15	5	5
8:30	30	27	20:30	5	6
8:45	46 133	49 169	20:45	7 25	12 27
9:00	28	26	21:00	9	5
9:15	25	35	21:15	3	12
9:30	35	25	21:30	7	9
9:45	27 115	31 117	21:45	3 22	11 37
10:00	36	24	22:00	2	3
10:15	29	17	22:15	2	2
10:30	28	25	22:30	5	1
10:45	25 118	21 87	22:45	5 14	1 7
11:00	42	18	23:00	3	5
11:15	22	37	23:15	4	3
11:30	38	38	23:30	2	1
11:45	37 139	28 121	23:45	1 10	0 9

Total Vol.	915	945	1860	1229	1049	2278
				Daily Totals		
				EB	WB	Combined
				2144	1994	4138

	AM			PM		
Split %	49.2%	50.8%	44.9%	54.0%	46.0%	55.1%
Peak Hour	6:30	7:30	7:15	15:30	15:30	15:30
Volume	146	203	340	216	171	387
P.H.F.	0.79	0.79	0.82	0.90	0.76	0.82

ADT49 Morse Ave between Kraemer Blvd and Venice Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	0	0	12:00	9	13
0:15	2	0	12:15	4	7
0:30	1	1	12:30	8	15
0:45	0 3	0 1	12:45	11 32	13 48
1:00	0	0	13:00	8	15
1:15	0	0	13:15	23	16
1:30	0	0	13:30	6	13
1:45	0 0	0 0	13:45	11 48	8 52
2:00	0	0	14:00	6	9
2:15	0	0	14:15	8	12
2:30	0	0	14:30	12	17
2:45	0 0	1 1	14:45	12 38	14 52
3:00	0	0	15:00	7	15
3:15	1	2	15:15	10	15
3:30	2	1	15:30	18	13
3:45	0 3	2 5	15:45	12 47	12 55
4:00	0	1	16:00	11	9
4:15	0	1	16:15	10	9
4:30	0	3	16:30	20	17
4:45	1 1	0 5	16:45	9 50	9 44
5:00	0	6	17:00	12	11
5:15	1	0	17:15	18	7
5:30	0	3	17:30	9	13
5:45	2 3	6 15	17:45	14 53	10 41
6:00	2	4	18:00	14	5
6:15	1	2	18:15	11	7
6:30	1	6	18:30	10	6
6:45	4 8	13 25	18:45	10 45	9 27
7:00	2	8	19:00	7	7
7:15	6	34	19:15	5	4
7:30	7	42	19:30	4	5
7:45	18 33	30 114	19:45	10 26	4 20
8:00	5	10	20:00	6	6
8:15	5	9	20:15	9	3
8:30	6	8	20:30	7	5
8:45	10 26	11 38	20:45	2 24	4 18
9:00	8	8	21:00	3	4
9:15	9	13	21:15	5	6
9:30	5	13	21:30	5	3
9:45	6 28	11 45	21:45	2 15	2 15
10:00	9	12	22:00	3	2
10:15	9	7	22:15	1	1
10:30	7	15	22:30	1	3
10:45	9 34	8 42	22:45	1 6	1 7
11:00	7	8	23:00	1	0
11:15	7	4	23:15	1	0
11:30	7	9	23:30	0	1
11:45	7 28	11 32	23:45	0 2	0 1

Total Vol.	167	323	490	386	380	766
				Daily Totals		
				EB	WB	Combined
				553	703	1256

	AM			PM		
Split %	34.1%	65.9%	39.0%	50.4%	49.6%	61.0%
Peak Hour	7:15	7:15	7:15	16:30	14:30	12:30
Volume	36	116	152	59	61	109
P.H.F.	0.50	0.69	0.78	0.66	0.90	0.70

ADT50 Orangethorpe Ave from Placentia Ave to Melrose Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	17		19		12:00	114		174		
0:15	24		16		12:15	125		147		
0:30	25		19		12:30	131		133		
0:45	15	81	8	62	12:45	137	507	149	603	1110
1:00	7		15		13:00	134		137		
1:15	7		7		13:15	124		178		
1:30	10		10		13:30	166		182		
1:45	8	32	4	36	13:45	147	571	163	660	1231
2:00	13		10		14:00	148		174		
2:15	6		6		14:15	151		162		
2:30	7		6		14:30	192		185		
2:45	7	33	4	26	14:45	182	673	179	700	1373
3:00	4		12		15:00	190		202		
3:15	9		16		15:15	172		163		
3:30	6		34		15:30	210		183		
3:45	10	29	27	89	15:45	169	741	214	762	1503
4:00	15		22		16:00	210		207		
4:15	26		27		16:15	205		222		
4:30	26		56		16:30	197		205		
4:45	47	114	70	175	16:45	184	796	189	823	1619
5:00	29		46		17:00	229		186		
5:15	42		69		17:15	196		199		
5:30	67		75		17:30	190		205		
5:45	72	210	98	288	17:45	130	745	179	769	1514
6:00	67		95		18:00	156		156		
6:15	83		80		18:15	137		144		
6:30	84		89		18:30	114		131		
6:45	104	338	105	369	18:45	99	506	91	522	1028
7:00	99		104		19:00	88		94		
7:15	139		114		19:15	74		98		
7:30	135		146		19:30	76		76		
7:45	145	518	225	589	19:45	62	300	61	329	629
8:00	127		186		20:00	79		57		
8:15	128		159		20:15	74		58		
8:30	127		154		20:30	45		56		
8:45	141	523	164	663	20:45	51	249	50	221	470
9:00	137		138		21:00	50		35		
9:15	123		131		21:15	33		47		
9:30	126		148		21:30	36		38		
9:45	109	495	161	578	21:45	42	161	39	159	320
10:00	122		155		22:00	59		29		
10:15	97		145		22:15	32		32		
10:30	122		158		22:30	26		35		
10:45	109	450	154	612	22:45	27	144	36	132	276
11:00	121		175		23:00	29		34		
11:15	129		144		23:15	27		25		
11:30	132		163		23:30	35		25		
11:45	124	506	147	629	23:45	19	110	13	97	207

Total Vol.	3329	4116	7445		5503	5777		11280
					Daily Totals			Combined
					EB	WB		
					8832	9893		18725

	AM			PM		
Split %	44.7%	55.3%	39.8%	48.8%	51.2%	60.2%
Peak Hour	7:15	7:45	7:30	16:15	15:45	15:45
Volume	546	724	1251	815	848	1629
P.H.F.	0.94	0.80	0.85	0.94	0.95	0.95

ADT51 Orangethorpe Ave from Melrose Street to Kraemer Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB	
0:00	12		8		12:00	136		122	
0:15	22		7		12:15	160		104	
0:30	14		16		12:30	150		117	
0:45	13	61	4	35	96	12:45	134	580	118 461
1:00	7		5		13:00	156		116	
1:15	9		8		13:15	135		150	
1:30	11		6		13:30	170		120	
1:45	7	34	8	27	61	13:45	142	603	152 538
2:00	10		4		14:00	170		139	
2:15	10		8		14:15	129		128	
2:30	11		8		14:30	210		172	
2:45	12	43	8	28	71	14:45	171	680	125 564
3:00	12		9		15:00	183		149	
3:15	9		9		15:15	181		156	
3:30	14		15		15:30	197		182	
3:45	30	65	16	49	114	15:45	236	797	163 650
4:00	30		18		16:00	252		185	
4:15	34		22		16:15	238		174	
4:30	55		29		16:30	245		171	
4:45	89	208	39	108	316	16:45	233	968	178 708
5:00	53		33		17:00	257		177	
5:15	71		49		17:15	261		171	
5:30	80		65		17:30	277		133	
5:45	121	325	63	210	535	17:45	215	1010	108 589
6:00	85		66		18:00	240		109	
6:15	105		83		18:15	172		113	
6:30	83		89		18:30	152		109	
6:45	139	412	119	357	769	18:45	127	691	85 416
7:00	122		146		19:00	116		70	
7:15	149		178		19:15	87		75	
7:30	155		154		19:30	89		60	
7:45	164	590	186	664	1254	19:45	86	378	59 264
8:00	148		177		20:00	81		54	
8:15	163		201		20:15	67		41	
8:30	159		185		20:30	55		32	
8:45	121	591	145	708	1299	20:45	64	267	46 173
9:00	152		125		21:00	70		42	
9:15	135		132		21:15	40		38	
9:30	131		126		21:30	55		23	
9:45	132	550	120	503	1053	21:45	52	217	32 135
10:00	146		111		22:00	53		39	
10:15	147		105		22:15	43		29	
10:30	122		87		22:30	31		20	
10:45	128	543	110	413	956	22:45	30	157	30 118
11:00	139		124		23:00	33		15	
11:15	122		129		23:15	27		7	
11:30	151		115		23:30	26		15	
11:45	155	567	114	482	1049	23:45	27	113	13 50

Total Vol.	3989	3584	7573		6461	4666	11127
					Daily Totals		Combined
					EB	WB	
					10450	8250	18700

	AM			PM		
Split %	52.7%	47.3%	40.5%	58.1%	41.9%	59.5%
Peak Hour	7:45	7:45	7:45	16:45	16:00	16:30
Volume	634	749	1383	1028	708	1693
P.H.F.	0.97	0.93	0.95	0.97	0.96	0.98

ADT52 Orangethorpe Ave from City Limits WO Chapman Ave to Rose DR.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB			
0:00	11		4		12:00	98		101			
0:15	11		6		12:15	123		105			
0:30	13		8		12:30	106		91			
0:45	4	39	2	20	59	12:45	95	422	103	400	822
1:00	6		4		13:00	113		89			
1:15	5		6		13:15	127		87			
1:30	6		4		13:30	149		114			
1:45	3	20	3	17	37	13:45	133	522	93	383	905
2:00	5		4		14:00	157		109			
2:15	7		2		14:15	119		146			
2:30	5		4		14:30	145		174			
2:45	5	22	9	19	41	14:45	170	591	150	579	1170
3:00	4		3		15:00	192		146			
3:15	11		4		15:15	196		142			
3:30	7		7		15:30	227		179			
3:45	11	33	2	16	49	15:45	247	862	151	618	1480
4:00	8		12		16:00	268		148			
4:15	18		15		16:15	249		186			
4:30	24		19		16:30	263		183			
4:45	29	79	23	69	148	16:45	247	1027	163	680	1707
5:00	31		26		17:00	286		187			
5:15	37		26		17:15	243		171			
5:30	48		52		17:30	214		99			
5:45	67	183	46	150	333	17:45	207	950	118	575	1525
6:00	48		45		18:00	162		112			
6:15	61		54		18:15	148		113			
6:30	75		68		18:30	128		94			
6:45	106	290	112	279	569	18:45	109	547	92	411	958
7:00	101		162		19:00	92		74			
7:15	127		179		19:15	74		54			
7:30	161		184		19:30	64		64			
7:45	160	549	203	728	1277	19:45	60	290	62	254	544
8:00	144		202		20:00	62		50			
8:15	130		193		20:15	53		48			
8:30	153		172		20:30	40		30			
8:45	93	520	122	689	1209	20:45	48	203	43	171	374
9:00	120		92		21:00	33		43			
9:15	104		113		21:15	43		36			
9:30	92		97		21:30	36		35			
9:45	97	413	109	411	824	21:45	30	142	20	134	276
10:00	100		78		22:00	33		24			
10:15	94		83		22:15	34		18			
10:30	86		87		22:30	21		21			
10:45	100	380	96	344	724	22:45	24	112	21	84	196
11:00	96		76		23:00	24		16			
11:15	92		80		23:15	11		10			
11:30	109		95		23:30	11		6			
11:45	103	400	106	357	757	23:45	13	59	12	44	103

Total Vol.	2928	3099	6027		5727	4333	10060
					Daily Totals		Combined
					EB	WB	
					8655	7432	16087

	AM			PM		
Split %	48.6%	51.4%	37.5%	56.9%	43.1%	62.5%
Peak Hour	7:30	7:30	7:30	16:15	16:15	16:15
Volume	595	782	1377	1045	719	1764
P.H.F.	0.92	0.96	0.95	0.96	0.96	0.93

ADT53 Orangethorpe Ave from Rose DR to East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	13		2		12:00	98		99		
0:15	9		5		12:15	95		93		
0:30	7		8		12:30	113		113		
0:45	8	37	4	19	56	12:45	109	415	111	416
1:00	12		7		13:00	112		90		
1:15	5		6		13:15	100		85		
1:30	7		5		13:30	147		107		
1:45	5	29	11	29	58	13:45	136	495	86	368
2:00	7		4		14:00	137		107		
2:15	5		4		14:15	136		147		
2:30	6		3		14:30	162		162		
2:45	3	21	3	14	35	14:45	179	614	153	569
3:00	2		5		15:00	185		131		
3:15	5		3		15:15	171		137		
3:30	13		10		15:30	204		159		
3:45	12	32	6	24	56	15:45	220	780	176	603
4:00	10		5		16:00	235		153		
4:15	12		19		16:15	270		166		
4:30	24		28		16:30	290		167		
4:45	27	73	32	84	157	16:45	307	1102	167	653
5:00	24		30		17:00	285		177		
5:15	36		36		17:15	241		196		
5:30	50		38		17:30	244		108		
5:45	61	171	61	165	336	17:45	238	1008	132	613
6:00	52		41		18:00	239		114		
6:15	58		60		18:15	161		88		
6:30	55		71		18:30	130		113		
6:45	103	268	120	292	560	18:45	131	661	88	403
7:00	87		148		19:00	98		59		
7:15	135		160		19:15	77		78		
7:30	165		151		19:30	72		55		
7:45	133	520	200	659	1179	19:45	56	303	37	229
8:00	154		184		20:00	73		40		
8:15	125		193		20:15	56		48		
8:30	102		174		20:30	50		33		
8:45	114	495	129	680	1175	20:45	55	234	52	173
9:00	99		118		21:00	45		30		
9:15	89		116		21:15	41		29		
9:30	98		113		21:30	36		27		
9:45	79	365	118	465	830	21:45	38	160	22	108
10:00	80		111		22:00	36		14		
10:15	80		99		22:15	24		26		
10:30	86		95		22:30	29		18		
10:45	97	343	102	407	750	22:45	15	104	11	69
11:00	80		87		23:00	22		9		
11:15	87		113		23:15	17		11		
11:30	83		92		23:30	20		10		
11:45	101	351	126	418	769	23:45	9	68	7	37

Total Vol.	2705	3256	5961		5944	4241		10185
					Daily Totals			Combined
					EB	WB		
					8649	7497		16146

	AM			PM		
Split %	45.4%	54.6%	36.9%	58.4%	41.6%	63.1%
Peak Hour	7:15	7:45	7:30	16:15	16:30	16:30
Volume	587	751	1305	1152	707	1830
P.H.F.	0.89	0.94	0.97	0.96	0.90	0.97

ADT54 Orchard Drive from Van Buren to Richfield Road.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	2		3		12:00	24		22		
0:15	3		3		12:15	26		20		
0:30	2		1		12:30	13		22		
0:45	2	9	1	8	12:45	30	93	26	90	183
1:00	0		2		13:00	17		22		
1:15	2		1		13:15	19		19		
1:30	0		3		13:30	18		22		
1:45	0	2	2	8	13:45	25	79	22	85	164
2:00	1		0		14:00	21		36		
2:15	1		0		14:15	25		44		
2:30	0		1		14:30	26		26		
2:45	1	3	0	1	14:45	16	88	25	131	219
3:00	0		1		15:00	25		21		
3:15	0		1		15:15	30		25		
3:30	1		2		15:30	29		23		
3:45	1	2	1	5	15:45	34	118	33	102	220
4:00	3		0		16:00	28		37		
4:15	4		4		16:15	32		44		
4:30	1		3		16:30	30		37		
4:45	3	11	4	11	16:45	29	119	34	152	271
5:00	8		5		17:00	30		36		
5:15	6		3		17:15	29		33		
5:30	12		5		17:30	33		35		
5:45	9	35	10	23	17:45	28	120	35	139	259
6:00	10		13		18:00	24		43		
6:15	15		11		18:15	23		23		
6:30	11		19		18:30	16		20		
6:45	19	55	13	56	18:45	20	83	20	106	189
7:00	32		17		19:00	21		18		
7:15	35		29		19:15	12		26		
7:30	50		28		19:30	16		20		
7:45	31	148	37	111	19:45	9	58	12	76	134
8:00	22		36		20:00	9		15		
8:15	27		40		20:15	11		20		
8:30	24		21		20:30	15		24		
8:45	31	104	24	121	20:45	15	50	18	77	127
9:00	17		17		21:00	10		9		
9:15	12		29		21:15	2		11		
9:30	15		15		21:30	6		9		
9:45	17	61	8	69	21:45	7	25	10	39	64
10:00	21		13		22:00	4		7		
10:15	15		9		22:15	9		3		
10:30	11		18		22:30	6		5		
10:45	23	70	18	58	22:45	6	25	2	17	42
11:00	13		15		23:00	2		5		
11:15	19		14		23:15	4		5		
11:30	14		16		23:30	0		3		
11:45	16	62	15	60	23:45	2	8	3	16	24

Total Vol.	562	531	1093		866	1030		1896
							Daily Totals	
					EB	WB		Combined
					1428	1561		2989

	AM			PM		
Split %	51.4%	48.6%	36.6%	45.7%	54.3%	63.4%
Peak Hour	7:00	7:30	7:30	15:45	16:00	15:45
Volume	148	141	271	124	152	275
P.H.F.	0.74	0.88	0.87	0.93	0.86	0.90

ADT55 Orchard Drive from Richfield Road to Highland Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	2		2		12:00	36		25		
0:15	1		2		12:15	30		29		
0:30	1		2		12:30	24		22		
0:45	0	4	2	8	12:45	28	118	20	96	214
1:00	1		1		13:00	28		30		
1:15	4		1		13:15	24		13		
1:30	1		1		13:30	20		20		
1:45	1	7	0	3	13:45	33	105	23	86	191
2:00	1		0		14:00	23		21		
2:15	0		0		14:15	29		35		
2:30	0		1		14:30	26		30		
2:45	1	2	0	1	14:45	23	101	28	114	215
3:00	0		0		15:00	32		28		
3:15	0		1		15:15	32		40		
3:30	3		0		15:30	35		26		
3:45	3	6	1	2	15:45	36	135	36	130	265
4:00	2		0		16:00	36		41		
4:15	5		0		16:15	42		42		
4:30	2		2		16:30	32		52		
4:45	8	17	1	3	16:45	27	137	37	172	309
5:00	9		5		17:00	43		38		
5:15	10		4		17:15	44		44		
5:30	6		3		17:30	21		46		
5:45	12	37	4	16	17:45	35	143	44	172	315
6:00	14		3		18:00	31		41		
6:15	20		3		18:15	28		24		
6:30	17		9		18:30	22		26		
6:45	28	79	13	28	18:45	27	108	27	118	226
7:00	51		17		19:00	16		29		
7:15	40		15		19:15	18		18		
7:30	56		27		19:30	13		11		
7:45	53	200	35	94	19:45	13	60	6	64	124
8:00	38		28		20:00	9		16		
8:15	48		24		20:15	16		13		
8:30	37		13		20:30	25		19		
8:45	43	166	16	81	20:45	11	61	16	64	125
9:00	19		23		21:00	13		13		
9:15	26		18		21:15	5		7		
9:30	22		8		21:30	3		11		
9:45	23	90	8	57	21:45	11	32	10	41	73
10:00	30		15		22:00	7		11		
10:15	19		11		22:15	7		9		
10:30	19		14		22:30	4		4		
10:45	28	96	20	60	22:45	8	26	4	28	54
11:00	11		20		23:00	1		3		
11:15	24		14		23:15	4		5		
11:30	21		15		23:30	0		2		
11:45	17	73	21	70	23:45	2	7	4	14	21

Total Vol.	777	423	1200		1033	1099		2132
					Daily Totals			
					EB	WB		Combined
					1810	1522		3332

	AM			PM		
Split %	64.8%	35.3%	36.0%	48.5%	51.5%	64.0%
Peak Hour	7:00	7:30	7:30	15:30	17:15	15:45
Volume	200	114	309	149	175	317
P.H.F.	0.89	0.81	0.88	0.99	0.95	0.94

ADT56 Orchard Drive between Highland Ave and Lakeview Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB						
0:00	1	2	12:00	16	25						
0:15	4	2	12:15	20	21						
0:30	1	3	12:30	19	20						
0:45	1	7	3	10	17	12:45	20	75	23	89	164
1:00	0	1	13:00	25	18						
1:15	0	0	13:15	15	29						
1:30	2	0	13:30	17	15						
1:45	0	2	1	2	4	13:45	22	79	18	80	159
2:00	2	0	14:00	13	20						
2:15	0	1	14:15	13	14						
2:30	2	0	14:30	17	21						
2:45	1	5	2	3	8	14:45	17	60	17	72	132
3:00	0	0	15:00	13	27						
3:15	0	0	15:15	22	21						
3:30	1	1	15:30	21	22						
3:45	3	4	0	1	5	15:45	23	79	16	86	165
4:00	3	1	16:00	21	23						
4:15	7	1	16:15	19	36						
4:30	11	0	16:30	15	33						
4:45	4	25	2	4	29	16:45	30	85	20	112	197
5:00	10	1	17:00	24	32						
5:15	9	1	17:15	19	46						
5:30	7	1	17:30	7	36						
5:45	14	40	0	3	43	17:45	21	71	27	141	212
6:00	11	3	18:00	18	21						
6:15	23	4	18:15	21	24						
6:30	22	5	18:30	13	21						
6:45	18	74	7	19	93	18:45	14	66	30	96	162
7:00	40	9	19:00	18	21						
7:15	39	3	19:15	15	19						
7:30	33	16	19:30	6	18						
7:45	28	140	23	51	191	19:45	11	50	17	75	125
8:00	29	9	20:00	4	19						
8:15	16	10	20:15	4	16						
8:30	18	8	20:30	12	17						
8:45	23	86	12	39	125	20:45	7	27	15	67	94
9:00	13	6	21:00	6	13						
9:15	11	6	21:15	3	16						
9:30	19	14	21:30	5	11						
9:45	14	57	8	34	91	21:45	6	20	12	52	72
10:00	27	9	22:00	5	7						
10:15	27	11	22:15	7	7						
10:30	22	8	22:30	4	7						
10:45	11	87	17	45	132	22:45	3	19	8	29	48
11:00	16	13	23:00	3	6						
11:15	20	16	23:15	4	3						
11:30	19	8	23:30	2	5						
11:45	17	72	13	50	122	23:45	0	9	4	18	27

Total Vol.	599	261	860	640	917	1557
				Daily Totals		
				EB	WB	Combined
				1239	1178	2417

	AM			PM		
Split %	69.7%	30.3%	35.6%	41.1%	58.9%	64.4%
Peak Hour	7:00	11:45	7:00	16:15	17:00	16:30
Volume	140	79	191	88	141	219
P.H.F.	0.88	0.79	0.94	0.78	0.77	0.84

ADT57 Palm Drive between Yorba Linda Blvd and Valencia Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	5	4	12:00	65	57
0:15	5	2	12:15	67	47
0:30	10	3	12:30	91	44
0:45	6 26	4 13	12:45	86 309	55 203
1:00	1	3	13:00	98	68
1:15	2	1	13:15	90	70
1:30	1	0	13:30	89	67
1:45	1 5	3 7	13:45	87 364	64 269
2:00	3	2	14:00	83	50
2:15	1	1	14:15	66	56
2:30	4	0	14:30	89	69
2:45	0 8	1 4	14:45	95 333	84 259
3:00	0	0	15:00	105	70
3:15	2	7	15:15	95	76
3:30	3	4	15:30	126	70
3:45	2 7	1 12	15:45	102 428	64 280
4:00	2	2	16:00	123	75
4:15	5	1	16:15	98	70
4:30	3	9	16:30	133	76
4:45	12 22	8 20	16:45	109 463	61 282
5:00	4	4	17:00	102	81
5:15	11	14	17:15	113	64
5:30	15	14	17:30	97	70
5:45	10 40	18 50	17:45	92 404	71 286
6:00	20	26	18:00	85	69
6:15	15	45	18:15	84	46
6:30	37	32	18:30	58	49
6:45	37 109	53 156	18:45	80 307	45 209
7:00	41	58	19:00	80	47
7:15	53	71	19:15	57	38
7:30	67	73	19:30	42	26
7:45	89 250	66 268	19:45	55 234	29 140
8:00	68	75	20:00	55	35
8:15	70	65	20:15	48	34
8:30	61	81	20:30	32	20
8:45	79 278	80 301	20:45	42 177	32 121
9:00	75	72	21:00	20	19
9:15	66	55	21:15	31	11
9:30	62	59	21:30	33	13
9:45	75 278	50 236	21:45	18 102	16 59
10:00	82	45	22:00	24	11
10:15	69	59	22:15	13	8
10:30	55	68	22:30	16	10
10:45	88 294	55 227	22:45	14 67	12 41
11:00	55	69	23:00	9	6
11:15	78	60	23:15	9	4
11:30	79	48	23:30	3	1
11:45	87 299	65 242	23:45	10 31	3 14

Total Vol.	1616	1536	3152	3219	2163	5382
				Daily Totals		
				EB	WB	Combined
				4835	3699	8534

	AM			PM		
Split %	51.3%	48.7%	36.9%	59.8%	40.2%	63.1%
Peak Hour	11:45	8:00	8:15	16:00	14:45	16:00
Volume	310	301	583	463	300	745
P.H.F.	0.85	0.93	0.92	0.92	0.89	0.89

ADT58 Palm Drive from Valencia Ave to Rose Dr.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	5	4	12:00	73	57
0:15	6	4	12:15	98	61
0:30	5	2	12:30	79	59
0:45	3 19	4 14	12:45	79 329	65 242
1:00	1	1	13:00	88	59
1:15	4	2	13:15	97	76
1:30	0	1	13:30	91	53
1:45	0 5	0 4	13:45	83 359	77 265
2:00	2	1	14:00	99	93
2:15	3	0	14:15	115	95
2:30	0	0	14:30	154	79
2:45	2 7	0 1	14:45	95 463	85 352
3:00	3	0	15:00	117	94
3:15	2	3	15:15	123	103
3:30	0	3	15:30	151	101
3:45	2 7	4 10	15:45	136 527	88 386
4:00	2	2	16:00	140	91
4:15	6	4	16:15	159	85
4:30	3	4	16:30	158	90
4:45	12 23	8 18	16:45	138 595	75 341
5:00	14	8	17:00	157	87
5:15	18	11	17:15	116	78
5:30	19	13	17:30	103	82
5:45	21 72	25 57	17:45	139 515	93 340
6:00	39	24	18:00	112	91
6:15	34	24	18:15	108	77
6:30	46	33	18:30	89	76
6:45	66 185	62 143	18:45	78 387	43 287
7:00	88	83	19:00	74	60
7:15	107	84	19:15	60	48
7:30	120	95	19:30	75	46
7:45	178 493	100 362	19:45	48 257	32 186
8:00	126	100	20:00	58	32
8:15	132	119	20:15	39	44
8:30	105	65	20:30	53	37
8:45	101 464	64 348	20:45	46 196	36 149
9:00	95	47	21:00	34	20
9:15	65	61	21:15	55	26
9:30	70	48	21:30	24	20
9:45	72 302	55 211	21:45	20 133	29 95
10:00	68	51	22:00	6	15
10:15	68	61	22:15	17	12
10:30	75	58	22:30	16	11
10:45	85 296	54 224	22:45	8 47	8 46
11:00	69	52	23:00	9	5
11:15	82	67	23:15	13	5
11:30	69	55	23:30	8	3
11:45	73 293	71 245	23:45	7 37	6 19

Total Vol.	2166	1637	3803	3845	2708	6553
				Daily Totals		
				EB	WB	Combined
				6011	4345	10356

	AM			PM		
Split %	57.0%	43.0%	36.7%	58.7%	41.3%	63.3%
Peak Hour	7:30	7:30	7:30	16:15	15:00	15:30
Volume	556	414	970	612	386	951
P.H.F.	0.78	0.87	0.87	0.93	0.94	0.94

ADT59 Placentia Ave from South City Limit NO Primrose Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB	
0:00	13		16		12:00	119		173	
0:15	17		10		12:15	105		141	
0:30	16		11		12:30	116		143	
0:45	16	62	13	50	12:45	111	451	163	620
					1071				
1:00	15		7		13:00	118		132	
1:15	9		9		13:15	130		154	
1:30	7		5		13:30	133		156	
1:45	4	35	6	27	13:45	117	498	148	590
					1088				
2:00	1		4		14:00	129		128	
2:15	5		5		14:15	119		175	
2:30	6		9		14:30	138		170	
2:45	5	17	6	24	14:45	147	533	151	624
					1157				
3:00	6		5		15:00	140		136	
3:15	7		10		15:15	138		145	
3:30	1		11		15:30	162		182	
3:45	3	17	11	37	15:45	167	607	177	640
					1247				
4:00	1		11		16:00	148		160	
4:15	12		10		16:15	132		186	
4:30	7		22		16:30	164		158	
4:45	12	32	40	83	16:45	162	606	146	650
					1256				
5:00	8		29		17:00	180		149	
5:15	17		31		17:15	181		186	
5:30	22		37		17:30	157		175	
5:45	27	74	50	147	17:45	155	673	163	673
					1346				
6:00	27		43		18:00	131		138	
6:15	32		73		18:15	136		141	
6:30	35		73		18:30	107		130	
6:45	37	131	119	308	18:45	114	488	104	513
					1001				
7:00	46		132		19:00	118		96	
7:15	68		145		19:15	99		97	
7:30	93		203		19:30	96		99	
7:45	71	278	223	703	19:45	90	403	98	390
					793				
8:00	78		171		20:00	87		75	
8:15	104		157		20:15	75		86	
8:30	77		185		20:30	61		75	
8:45	77	336	132	645	20:45	54	277	78	314
					591				
9:00	57		125		21:00	49		66	
9:15	68		112		21:15	54		63	
9:30	73		106		21:30	52		47	
9:45	65	263	111	454	21:45	37	192	39	215
					407				
10:00	72		117		22:00	34		44	
10:15	75		95		22:15	38		38	
10:30	80		112		22:30	29		26	
10:45	72	299	127	451	22:45	30	131	22	130
					261				
11:00	77		138		23:00	28		26	
11:15	88		125		23:15	27		25	
11:30	98		130		23:30	19		23	
11:45	99	362	136	529	23:45	18	92	18	92
					184				

Total Vol.	1906	3458	5364		4951	5451		10402
					Daily Totals			
					NB	SB		Combined
					6857	8909		15766

	AM			PM		
Split %	35.5%	64.5%	34.0%	47.6%	52.4%	66.0%
Peak Hour	11:45	7:30	7:30	16:30	15:30	17:00
Volume	439	754	1100	687	705	1346
P.H.F.	0.92	0.85	0.93	0.95	0.95	0.92

ADT61 Richfield from North City Limit to South City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	8	13	12:00	73	51
0:15	2	5	12:15	70	64
0:30	3	9	12:30	55	33
0:45	2 15	8 35	12:45	65 263	46 194
1:00	6	6	13:00	56	66
1:15	3	3	13:15	60	64
1:30	9	5	13:30	65	65
1:45	3 21	5 19	13:45	66 247	49 244
2:00	4	1	14:00	72	55
2:15	2	7	14:15	74	55
2:30	3	3	14:30	75	55
2:45	3 12	1 12	14:45	77 298	49 214
3:00	0	2	15:00	83	49
3:15	2	4	15:15	103	51
3:30	4	1	15:30	103	89
3:45	1 7	3 10	15:45	105 394	58 247
4:00	3	0	16:00	105	64
4:15	1	3	16:15	111	50
4:30	1	4	16:30	102	63
4:45	4 9	3 10	16:45	118 436	65 242
5:00	8	5	17:00	125	50
5:15	10	4	17:15	118	57
5:30	9	15	17:30	100	52
5:45	19 46	19 43	17:45	115 458	55 214
6:00	6	13	18:00	116	61
6:15	25	27	18:15	72	50
6:30	21	22	18:30	83	61
6:45	29 81	38 100	18:45	66 337	56 228
7:00	37	55	19:00	62	50
7:15	46	42	19:15	43	45
7:30	38	68	19:30	43	47
7:45	64 185	67 232	19:45	45 193	37 179
8:00	47	78	20:00	45	30
8:15	63	90	20:15	42	40
8:30	37	82	20:30	44	30
8:45	61 208	122 372	20:45	42 173	21 121
9:00	38	93	21:00	29	29
9:15	42	72	21:15	33	35
9:30	38	89	21:30	26	24
9:45	48 166	79 333	21:45	22 110	30 118
10:00	43	56	22:00	26	16
10:15	48	57	22:15	15	18
10:30	53	44	22:30	10	14
10:45	53 197	49 206	22:45	11 62	14 62
11:00	54	46	23:00	13	18
11:15	58	42	23:15	8	12
11:30	62	38	23:30	7	4
11:45	61 235	48 174	23:45	10 38	12 46

Total Vol.	1182	1546	2728	3009	2109	5118
				Daily Totals		
				NB	SB	Combined
				4191	3655	7846

	AM			PM		
Split %	43.3%	56.7%	34.8%	58.8%	41.2%	65.2%
Peak Hour	11:30	8:15	8:15	16:30	15:15	16:30
Volume	266	387	586	463	262	698
P.H.F.	0.91	0.79	0.80	0.94	0.74	0.95

ADT62 Rose Dr from Orangethorpe Ave to Alta Vista Street.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	13	23	12:00	166	161
0:15	18	10	12:15	117	175
0:30	13	10	12:30	169	151
0:45	7 51	8 51	12:45	168 620	179 666
1:00	13	7	13:00	176	171
1:15	5	2	13:15	182	209
1:30	6	8	13:30	169	193
1:45	7 31	8 25	13:45	188 715	185 758
2:00	4	3	14:00	191	178
2:15	4	5	14:15	182	219
2:30	2	9	14:30	194	217
2:45	4 14	5 22	14:45	194 761	197 811
3:00	2	6	15:00	212	200
3:15	7	8	15:15	261	171
3:30	4	14	15:30	236	231
3:45	7 20	16 44	15:45	244 953	221 823
4:00	7	19	16:00	297	226
4:15	12	27	16:15	278	208
4:30	11	35	16:30	282	275
4:45	11 41	55 136	16:45	308 1165	191 900
5:00	20	62	17:00	284	236
5:15	22	74	17:15	322	224
5:30	21	96	17:30	269	221
5:45	47 110	128 360	17:45	283 1158	201 882
6:00	31	140	18:00	273	183
6:15	56	204	18:15	237	147
6:30	62	254	18:30	192	152
6:45	104 253	284 882	18:45	220 922	98 580
7:00	103	328	19:00	171	96
7:15	109	308	19:15	148	87
7:30	144	388	19:30	105	95
7:45	132 488	429 1453	19:45	106 530	79 357
8:00	169	389	20:00	98	77
8:15	131	296	20:15	91	74
8:30	150	353	20:30	93	72
8:45	121 571	276 1314	20:45	105 387	70 293
9:00	136	241	21:00	87	86
9:15	116	209	21:15	90	40
9:30	128	212	21:30	58	44
9:45	130 510	228 890	21:45	60 295	35 205
10:00	126	167	22:00	61	26
10:15	107	183	22:15	40	36
10:30	118	172	22:30	34	28
10:45	128 479	167 689	22:45	28 163	16 106
11:00	153	163	23:00	30	25
11:15	140	181	23:15	17	19
11:30	151	191	23:30	31	19
11:45	137 581	188 723	23:45	17 95	11 74

Total Vol.	3149	6589	9738	7764	6455	14219
				Daily Totals		
				NB	SB	Combined
				10913	13044	23957

	AM			PM		
Split %	32.3%	67.7%	40.6%	54.6%	45.4%	59.4%
Peak Hour	11:15	7:15	7:30	16:30	15:45	16:30
Volume	594	1514	2078	1196	930	2122
P.H.F.	0.89	0.88	0.93	0.94	0.85	0.95

ADT63 Rose Dr from Alta Vista Street to Palm Drive.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB		
0:00	17		16		12:00	178		228		
0:15	13		15		12:15	228		235		
0:30	13		20		12:30	206		249		
0:45	9	52	6	57	12:45	216	828	252	964	1792
1:00	13		8		13:00	204		262		
1:15	9		8		13:15	223		288		
1:30	9		11		13:30	272		303		
1:45	4	35	5	32	13:45	284	983	298	1151	2134
2:00	4		6		14:00	270		321		
2:15	5		8		14:15	265		332		
2:30	4		6		14:30	287		384		
2:45	3	16	3	23	14:45	267	1089	324	1361	2450
3:00	0		7		15:00	304		369		
3:15	6		10		15:15	280		335		
3:30	8		7		15:30	315		356		
3:45	4	18	16	40	15:45	333	1232	337	1397	2629
4:00	6		16		16:00	317		356		
4:15	8		31		16:15	335		374		
4:30	12		38		16:30	316		412		
4:45	20	46	56	141	16:45	318	1286	294	1436	2722
5:00	16		63		17:00	363		398		
5:15	26		65		17:15	373		329		
5:30	22		106		17:30	332		315		
5:45	51	115	126	360	17:45	359	1427	319	1361	2788
6:00	39		139		18:00	322		263		
6:15	60		184		18:15	297		274		
6:30	85		225		18:30	253		199		
6:45	112	296	311	859	18:45	205	1077	151	887	1964
7:00	114		338		19:00	237		192		
7:15	151		408		19:15	236		170		
7:30	201		417		19:30	130		151		
7:45	205	671	418	1581	19:45	115	718	114	627	1345
8:00	201		415		20:00	131		125		
8:15	187		359		20:15	117		115		
8:30	166		347		20:30	102		96		
8:45	179	733	300	1421	20:45	116	466	111	447	913
9:00	150		284		21:00	92		83		
9:15	136		286		21:15	84		85		
9:30	136		276		21:30	70		51		
9:45	199	621	269	1115	21:45	59	305	41	260	565
10:00	145		250		22:00	58		49		
10:15	161		240		22:15	43		48		
10:30	171		300		22:30	47		36		
10:45	169	646	289	1079	22:45	42	190	29	162	352
11:00	184		256		23:00	29		42		
11:15	181		238		23:15	18		27		
11:30	195		229		23:30	23		25		
11:45	233	793	250	973	23:45	19	89	23	117	206

Total Vol.	4042	7681	11723		9690	10170		19860
					Daily Totals			
					NB	SB		Combined
					13732	17851		31583

	AM			PM		
Split %	34.5%	65.5%	37.1%	48.8%	51.2%	62.9%
Peak Hour	11:45	7:15	7:15	17:00	15:45	16:15
Volume	845	1658	2416	1427	1479	2810
P.H.F.	0.91	0.99	0.97	0.94	0.90	0.92

ADT64 Rose Dr from Palm Drive to City Limit (north of Yorba Linda Blvd).

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	10	13	12:00	138	118
0:15	11	11	12:15	162	135
0:30	7	13	12:30	134	145
0:45	3 31	8 45	12:45	156 590	120 518
1:00	7	5	13:00	157	139
1:15	6	6	13:15	145	159
1:30	9	9	13:30	173	153
1:45	2 24	5 25	13:45	173 648	192 643
2:00	5	4	14:00	191	136
2:15	2	3	14:15	160	198
2:30	4	5	14:30	189	185
2:45	3 14	2 14	14:45	176 716	193 712
3:00	0	2	15:00	206	164
3:15	4	10	15:15	205	172
3:30	5	6	15:30	213	186
3:45	3 12	8 26	15:45	215 839	192 714
4:00	7	12	16:00	224	204
4:15	8	17	16:15	244	208
4:30	10	21	16:30	219	226
4:45	18 43	33 83	16:45	253 940	168 806
5:00	10	33	17:00	239	219
5:15	22	37	17:15	290	200
5:30	26	73	17:30	229	168
5:45	38 96	92 235	17:45	236 994	183 770
6:00	27	73	18:00	240	140
6:15	43	111	18:15	210	149
6:30	66	141	18:30	182	116
6:45	94 230	204 529	18:45	148 780	91 496
7:00	95	195	19:00	152	112
7:15	127	237	19:15	152	114
7:30	183	212	19:30	85	105
7:45	160 565	243 887	19:45	79 468	67 398
8:00	140	205	20:00	81	84
8:15	156	204	20:15	73	63
8:30	129	191	20:30	66	72
8:45	139 564	180 780	20:45	70 290	73 292
9:00	131	168	21:00	66	61
9:15	120	179	21:15	49	65
9:30	103	166	21:30	54	36
9:45	152 506	157 670	21:45	28 197	35 197
10:00	111	129	22:00	29	40
10:15	114	140	22:15	32	36
10:30	117	134	22:30	31	19
10:45	120 462	167 570	22:45	29 121	19 114
11:00	123	133	23:00	15	26
11:15	124	114	23:15	11	14
11:30	150	116	23:30	20	18
11:45	167 564	160 523	23:45	12 58	18 76

Total Vol.	3111	4387	7498	6641	5736	12377
				Daily Totals		
				NB	SB	Combined
				9752	10123	19875

	AM			PM		
Split %	41.5%	58.5%	37.7%	53.7%	46.3%	62.3%
Peak Hour	7:30	7:15	7:15	16:45	15:45	16:30
Volume	639	897	1507	1011	830	1814
P.H.F.	0.87	0.92	0.93	0.92	0.92	0.93

ADT65 Rose Dr between Golden Ave and North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB			
0:00	12		11		12:00	146		137			
0:15	4		5		12:15	168		136			
0:30	1		9		12:30	140		146			
0:45	8	25	3	28	53	12:45	167	621	162	581	1202
1:00	1		5		13:00	127		149			
1:15	3		4		13:15	158		148			
1:30	6		3		13:30	173		142			
1:45	2	12	3	15	27	13:45	161	619	159	598	1217
2:00	2		1		14:00	173		161			
2:15	5		4		14:15	152		194			
2:30	1		3		14:30	178		181			
2:45	3	11	2	10	21	14:45	241	744	215	751	1495
3:00	3		1		15:00	235		177			
3:15	2		5		15:15	255		214			
3:30	0		6		15:30	274		186			
3:45	5	10	10	22	32	15:45	273	1037	193	770	1807
4:00	4		12		16:00	276		200			
4:15	6		13		16:15	286		228			
4:30	4		16		16:30	280		209			
4:45	20	34	18	59	93	16:45	302	1144	211	848	1992
5:00	14		27		17:00	279		180			
5:15	21		38		17:15	320		224			
5:30	29		47		17:30	314		192			
5:45	28	92	85	197	289	17:45	272	1185	170	766	1951
6:00	34		60		18:00	278		180			
6:15	58		100		18:15	237		176			
6:30	72		130		18:30	230		144			
6:45	87	251	169	459	710	18:45	156	901	146	646	1547
7:00	88		175		19:00	150		121			
7:15	122		208		19:15	128		118			
7:30	149		218		19:30	156		95			
7:45	204	563	201	802	1365	19:45	121	555	119	453	1008
8:00	165		231		20:00	105		107			
8:15	126		218		20:15	97		88			
8:30	133		217		20:30	81		66			
8:45	152	576	204	870	1446	20:45	73	356	64	325	681
9:00	149		187		21:00	59		58			
9:15	123		211		21:15	69		57			
9:30	138		173		21:30	57		34			
9:45	140	550	165	736	1286	21:45	46	231	37	186	417
10:00	136		129		22:00	33		28			
10:15	119		136		22:15	20		20			
10:30	132		110		22:30	35		22			
10:45	133	520	126	501	1021	22:45	19	107	24	94	201
11:00	129		130		23:00	25		19			
11:15	132		145		23:15	17		17			
11:30	161		131		23:30	9		15			
11:45	139	561	140	546	1107	23:45	7	58	10	61	119

Total Vol.	3205	4245	7450		7558	6079		13637
					Daily Totals			Combined
					NB	SB		
					10763	10324		21087

	AM			PM		
Split %	43.0%	57.0%	35.3%	55.4%	44.6%	64.7%
Peak Hour	7:30	8:00	7:30	16:45	16:00	16:45
Volume	644	870	1512	1215	848	2022
P.H.F.	0.79	0.94	0.93	0.95	0.93	0.93

ADT66 Santa Fe Ave from Placentia Ave to Murray St.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	4	1	12:00	18	15
0:15	3	1	12:15	19	23
0:30	0	1	12:30	14	20
0:45	3 10	1 4	12:45	25 76	23 81
1:00	0	1	13:00	17	28
1:15	1	2	13:15	18	11
1:30	0	0	13:30	22	15
1:45	1 2	1 4	13:45	15 72	32 86
2:00	1	0	14:00	23	24
2:15	0	0	14:15	24	31
2:30	0	2	14:30	26	26
2:45	1 2	1 3	14:45	30 103	28 109
3:00	0	1	15:00	25	29
3:15	0	1	15:15	19	25
3:30	1	5	15:30	30	33
3:45	0 1	1 8	15:45	25 99	40 127
4:00	1	5	16:00	24	34
4:15	2	4	16:15	25	27
4:30	0	7	16:30	32	18
4:45	5 8	10 26	16:45	23 104	41 120
5:00	2	9	17:00	34	33
5:15	8	6	17:15	25	33
5:30	4	11	17:30	32	32
5:45	5 19	10 36	17:45	30 121	26 124
6:00	8	8	18:00	16	22
6:15	6	11	18:15	29	16
6:30	10	14	18:30	18	28
6:45	18 42	17 50	18:45	17 80	16 82
7:00	14	23	19:00	16	20
7:15	20	23	19:15	11	19
7:30	22	33	19:30	23	11
7:45	19 75	32 111	19:45	14 64	17 67
8:00	28	22	20:00	13	10
8:15	20	26	20:15	16	13
8:30	20	34	20:30	11	10
8:45	19 87	18 100	20:45	12 52	8 41
9:00	16	11	21:00	13	13
9:15	17	24	21:15	11	16
9:30	7	16	21:30	6	10
9:45	12 52	15 66	21:45	8 38	7 46
10:00	14	10	22:00	15	9
10:15	13	15	22:15	12	6
10:30	17	20	22:30	8	4
10:45	11 55	25 70	22:45	6 41	5 24
11:00	16	26	23:00	4	4
11:15	18	21	23:15	8	2
11:30	26	30	23:30	4	4
11:45	15 75	19 96	23:45	3 19	2 12

Total Vol.	428	574	1002	869	919	1788
				Daily Totals		
				EB	WB	Combined
				1297	1493	2790

	AM			PM		
Split %	42.7%	57.3%	35.9%	48.6%	51.4%	64.1%
Peak Hour	7:15	7:45	7:30	17:00	16:45	16:45
Volume	89	114	202	121	139	253
P.H.F.	0.79	0.84	0.92	0.90	0.85	0.94

ADT67 Santa Fe Ave from Murray St to Bradford Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB	WB	PM Period	EB	WB
0:00	4	4	12:00	16	45
0:15	1	3	12:15	18	45
0:30	1	1	12:30	21	25
0:45	1 7	1 9	12:45	16 71	41 156
1:00	0	1	13:00	25	23
1:15	0	0	13:15	21	34
1:30	0	0	13:30	23	45
1:45	0 0	2 3	13:45	26 95	32 134
2:00	1	1	14:00	22	42
2:15	0	1	14:15	22	24
2:30	0	0	14:30	41	35
2:45	0 1	0 2	14:45	27 112	31 132
3:00	0	0	15:00	21	27
3:15	0	0	15:15	26	27
3:30	2	1	15:30	37	36
3:45	1 3	1 2	15:45	38 122	44 134
4:00	0	2	16:00	22	34
4:15	4	1	16:15	25	30
4:30	3	0	16:30	21	39
4:45	8 15	5 8	16:45	21 89	33 136
5:00	6	2	17:00	21	40
5:15	12	2	17:15	26	28
5:30	15	4	17:30	33	34
5:45	18 51	5 13	17:45	24 104	27 129
6:00	11	7	18:00	26	22
6:15	17	1	18:15	19	12
6:30	16	10	18:30	13	17
6:45	30 74	7 25	18:45	13 71	16 67
7:00	29	11	19:00	14	24
7:15	34	11	19:15	16	14
7:30	34	17	19:30	13	11
7:45	35 132	13 52	19:45	15 58	10 59
8:00	24	22	20:00	6	11
8:15	33	18	20:15	8	7
8:30	26	19	20:30	11	11
8:45	35 118	12 71	20:45	12 37	13 42
9:00	35	18	21:00	12	10
9:15	34	21	21:15	11	8
9:30	28	16	21:30	4	6
9:45	22 119	13 68	21:45	2 29	3 27
10:00	21	18	22:00	8	7
10:15	24	16	22:15	3	4
10:30	17	19	22:30	2	5
10:45	13 75	17 70	22:45	2 15	6 22
11:00	16	18	23:00	2	2
11:15	20	20	23:15	2	1
11:30	18	36	23:30	1	3
11:45	23 77	26 100	23:45	2 7	3 9

Total Vol.	672	423	1095	810	1047	1857
				Daily Totals		
				EB	WB	Combined
				1482	1470	2952

	AM			PM		
Split %	61.4%	38.6%	37.1%	43.6%	56.4%	62.9%
Peak Hour	7:00	11:30	11:30	15:15	12:00	15:30
Volume	132	152	227	123	156	266
P.H.F.	0.94	0.84	0.90	0.91	0.87	0.81

ADT68 Valencia Ave between Palm Drive and Yorba Linda Blvd.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB		SB		PM Period	NB		SB			
0:00	0		1		12:00	42		40			
0:15	3		0		12:15	39		42			
0:30	1		0		12:30	40		43			
0:45	2	6	3	4	10	12:45	53	174	47	172	346
1:00	0		0		13:00	69		85			
1:15	1		2		13:15	53		68			
1:30	1		0		13:30	42		59			
1:45	1	3	0	2	5	13:45	37	201	47	259	460
2:00	0		1		14:00	45		43			
2:15	0		1		14:15	57		54			
2:30	0		1		14:30	58		110			
2:45	1	1	0	3	4	14:45	53	213	74	281	494
3:00	1		1		15:00	57		60			
3:15	0		0		15:15	73		81			
3:30	2		1		15:30	63		91			
3:45	0	3	1	3	6	15:45	49	242	63	295	537
4:00	2		2		16:00	57		76			
4:15	1		2		16:15	68		78			
4:30	4		3		16:30	51		98			
4:45	5	12	5	12	24	16:45	47	223	81	333	556
5:00	2		8		17:00	58		92			
5:15	2		6		17:15	71		61			
5:30	7		11		17:30	66		70			
5:45	11	22	17	42	64	17:45	58	253	68	291	544
6:00	6		23		18:00	48		44			
6:15	10		21		18:15	46		43			
6:30	20		29		18:30	50		47			
6:45	19	55	28	101	156	18:45	36	180	49	183	363
7:00	33		37		19:00	46		44			
7:15	46		62		19:15	33		44			
7:30	79		80		19:30	19		23			
7:45	47	205	95	274	479	19:45	22	120	18	129	249
8:00	36		45		20:00	21		34			
8:15	48		42		20:15	16		22			
8:30	68		64		20:30	24		30			
8:45	140	292	82	233	525	20:45	29	90	30	116	206
9:00	69		117		21:00	26		44			
9:15	43		42		21:15	13		17			
9:30	28		44		21:30	16		18			
9:45	31	171	47	250	421	21:45	11	66	7	86	152
10:00	29		35		22:00	9		13			
10:15	24		27		22:15	8		12			
10:30	21		46		22:30	6		9			
10:45	36	110	35	143	253	22:45	7	30	4	38	68
11:00	37		34		23:00	1		4			
11:15	26		37		23:15	1		1			
11:30	30		40		23:30	2		2			
11:45	34	127	35	146	273	23:45	2	6	3	10	16

Total Vol.	1007	1213	2220		1798	2193	3991
					Daily Totals		Combined
					NB	SB	
					2805	3406	6211

	AM			PM		
Split %	45.4%	54.6%	35.7%	45.1%	54.9%	64.3%
Peak Hour	8:15	8:15	8:15	17:00	16:15	16:15
Volume	325	305	630	253	349	573
P.H.F.	0.58	0.65	0.71	0.92	0.89	0.96

ADT69 Valencia Ave from Yorba Linda Blvd to Bastanchury Road.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB	
0:00	7	4	12:00	45	56	
0:15	8	6	12:15	47	55	
0:30	4	4	12:30	49	55	
0:45	7	6	12:45	50	74	
	26	20		191	240	
						431
1:00	5	7	13:00	70	67	
1:15	3	3	13:15	54	55	
1:30	1	3	13:30	67	68	
1:45	0	0	13:45	49	76	
	9	13		240	266	
						506
2:00	1	0	14:00	125	81	
2:15	1	0	14:15	82	98	
2:30	0	0	14:30	73	103	
2:45	0	1	14:45	59	87	
	2	1		339	369	
						708
3:00	1	1	15:00	49	92	
3:15	1	0	15:15	71	136	
3:30	1	0	15:30	157	129	
3:45	1	1	15:45	99	122	
	4	2		376	479	
						855
4:00	3	0	16:00	86	115	
4:15	1	0	16:15	113	198	
4:30	2	1	16:30	117	125	
4:45	1	1	16:45	91	129	
	7	2		407	567	
						974
5:00	1	0	17:00	105	117	
5:15	1	4	17:15	97	116	
5:30	5	7	17:30	136	151	
5:45	12	11	17:45	176	120	
	19	22		514	504	
						1018
6:00	7	10	18:00	110	114	
6:15	8	10	18:15	104	110	
6:30	13	9	18:30	104	105	
6:45	19	33	18:45	88	114	
	47	62		406	443	
						849
7:00	13	20	19:00	94	69	
7:15	16	34	19:15	84	77	
7:30	24	42	19:30	79	70	
7:45	32	67	19:45	71	83	
	85	163		328	299	
						627
8:00	41	90	20:00	83	55	
8:15	54	105	20:15	47	36	
8:30	79	139	20:30	38	41	
8:45	74	146	20:45	48	39	
	248	480		216	171	
						387
9:00	53	110	21:00	29	44	
9:15	66	90	21:15	39	42	
9:30	67	148	21:30	42	29	
9:45	185	262	21:45	35	29	
	371	610		145	144	
						289
10:00	171	197	22:00	38	28	
10:15	65	58	22:15	29	12	
10:30	57	69	22:30	20	15	
10:45	45	72	22:45	19	10	
	338	396		106	65	
						171
11:00	38	66	23:00	11	10	
11:15	34	64	23:15	9	16	
11:30	43	55	23:30	11	9	
11:45	39	63	23:45	12	6	
	154	248		43	41	
						84

Total Vol.	1310	2019	3329	3311	3588	6899
				Daily Totals		
				NB	SB	Combined
				4621	5607	10228

	AM			PM		
Split %	39.4%	60.6%	32.5%	48.0%	52.0%	67.5%
Peak Hour	9:15	9:15	9:15	17:30	16:15	17:30
Volume	489	697	1186	526	569	1021
P.H.F.	0.66	0.67	0.66	0.76	0.72	0.86

ADT70 Valencia Ave from Bastanchury Road to Golden Ave.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	8	6	12:00	43	59
0:15	6	7	12:15	51	63
0:30	2	5	12:30	67	51
0:45	6 22	5 23	12:45	52 213	76 249
1:00	4	5	13:00	78	82
1:15	1	2	13:15	60	66
1:30	9	1	13:30	66	86
1:45	0 14	0 8	13:45	59 263	70 304
2:00	3	1	14:00	90	74
2:15	0	0	14:15	90	99
2:30	0	1	14:30	76	101
2:45	2 5	1 3	14:45	61 317	90 364
3:00	1	2	15:00	52	87
3:15	0	0	15:15	67	89
3:30	1	2	15:30	111	96
3:45	0 2	1 5	15:45	87 317	86 358
4:00	5	1	16:00	70	101
4:15	0	1	16:15	91	129
4:30	1	1	16:30	96	91
4:45	1 7	1 4	16:45	73 330	107 428
5:00	3	2	17:00	87	109
5:15	1	4	17:15	80	111
5:30	6	10	17:30	95	109
5:45	13 23	12 28	17:45	120 382	90 419
6:00	8	6	18:00	100	105
6:15	3	15	18:15	99	120
6:30	7	15	18:30	97	88
6:45	21 39	38 74	18:45	82 378	99 412
7:00	9	26	19:00	104	71
7:15	18	42	19:15	82	75
7:30	23	66	19:30	70	54
7:45	31 81	70 204	19:45	83 339	69 269
8:00	37	119	20:00	58	38
8:15	51	124	20:15	55	38
8:30	74	123	20:30	32	34
8:45	75 237	139 505	20:45	53 198	43 153
9:00	54	106	21:00	33	45
9:15	58	96	21:15	32	37
9:30	68	123	21:30	28	34
9:45	71 251	177 502	21:45	33 126	37 153
10:00	80	96	22:00	27	23
10:15	65	66	22:15	28	14
10:30	51	71	22:30	15	17
10:45	54 250	72 305	22:45	19 89	12 66
11:00	37	65	23:00	11	16
11:15	47	64	23:15	9	13
11:30	48	55	23:30	12	9
11:45	43 175	68 252	23:45	9 41	4 42

Total Vol.	1106	1913	3019	2993	3217	6210
				Daily Totals		
				NB	SB	Combined
				4099	5130	9229

	AM			PM		
Split %	36.6%	63.4%	32.7%	48.2%	51.8%	67.3%
Peak Hour	9:30	8:00	9:15	17:45	16:15	17:30
Volume	284	505	769	416	436	838
P.H.F.	0.89	0.91	0.78	0.87	0.84	0.96

ADT71 Valencia Ave between Golden Ave and North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	4	3	12:00	72	58
0:15	1	2	12:15	70	63
0:30	3	0	12:30	66	75
0:45	1 9	1 6	12:45	45 253	69 265
1:00	1	0	13:00	66	86
1:15	2	2	13:15	92	74
1:30	1	1	13:30	64	71
1:45	1 5	0 3	13:45	71 293	69 300
2:00	0	1	14:00	51	77
2:15	0	1	14:15	64	89
2:30	1	1	14:30	81	85
2:45	2 3	2 5	14:45	71 267	68 319
3:00	0	1	15:00	61	66
3:15	2	1	15:15	76	95
3:30	2	2	15:30	70	98
3:45	3 7	3 7	15:45	88 295	86 345
4:00	4	2	16:00	76	89
4:15	1	0	16:15	88	95
4:30	7	5	16:30	103	77
4:45	15 27	3 10	16:45	99 366	79 340
5:00	6	4	17:00	82	111
5:15	6	11	17:15	79	79
5:30	7	21	17:30	91	90
5:45	11 30	24 60	17:45	87 339	70 350
6:00	10	18	18:00	77	60
6:15	13	33	18:15	61	53
6:30	25	50	18:30	49	57
6:45	33 81	56 157	18:45	49 236	46 216
7:00	35	91	19:00	59	45
7:15	41	83	19:15	46	44
7:30	58	123	19:30	33	35
7:45	68 202	86 383	19:45	37 175	38 162
8:00	42	73	20:00	33	37
8:15	49	82	20:15	29	35
8:30	45	94	20:30	27	33
8:45	51 187	114 363	20:45	28 117	34 139
9:00	64	62	21:00	32	23
9:15	61	62	21:15	22	17
9:30	50	83	21:30	21	10
9:45	44 219	75 282	21:45	18 93	7 57
10:00	41	57	22:00	11	10
10:15	42	47	22:15	9	9
10:30	47	63	22:30	13	10
10:45	50 180	46 213	22:45	8 41	7 36
11:00	49	52	23:00	5	8
11:15	49	59	23:15	5	5
11:30	47	56	23:30	6	6
11:45	46 191	57 224	23:45	2 18	4 23

Total Vol.	1141	1713	2854	2493	2552	5045
				Daily Totals		
				NB	SB	Combined
				3634	4265	7899

	AM			PM		
Split %	40.0%	60.0%	36.1%	49.4%	50.6%	63.9%
Peak Hour	11:45	7:00	7:00	16:15	15:15	16:15
Volume	254	383	585	372	368	734
P.H.F.	0.88	0.78	0.81	0.94	0.94	0.95

ADT72 Van Buren from South City Limit to North City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	NB	SB	PM Period	NB	SB
0:00	6	4	12:00	36	19
0:15	2	3	12:15	35	24
0:30	7	3	12:30	23	24
0:45	2 17	2 12	12:45	35 129	33 100
1:00	4	1	13:00	33	28
1:15	1	0	13:15	29	29
1:30	1	1	13:30	35	19
1:45	3 9	3 5	13:45	31 128	30 106
2:00	1	1	14:00	31	26
2:15	3	0	14:15	40	43
2:30	3	1	14:30	38	39
2:45	0 7	2 4	14:45	35 144	35 143
3:00	0	3	15:00	45	31
3:15	3	4	15:15	47	39
3:30	1	3	15:30	59	35
3:45	1 5	2 12	15:45	31 182	30 135
4:00	2	8	16:00	66	48
4:15	3	7	16:15	57	31
4:30	6	5	16:30	55	31
4:45	4 15	7 27	16:45	43 221	38 148
5:00	3	12	17:00	68	26
5:15	1	18	17:15	65	41
5:30	9	30	17:30	72	22
5:45	8 21	30 90	17:45	58 263	22 111
6:00	13	35	18:00	42	20
6:15	19	49	18:15	36	24
6:30	9	42	18:30	39	22
6:45	13 54	46 172	18:45	30 147	17 83
7:00	15	48	19:00	28	11
7:15	16	79	19:15	24	27
7:30	19	66	19:30	31	15
7:45	16 66	63 256	19:45	22 105	12 65
8:00	29	75	20:00	21	7
8:15	31	51	20:15	22	8
8:30	24	36	20:30	21	15
8:45	23 107	56 218	20:45	28 92	9 39
9:00	22	52	21:00	20	5
9:15	23	27	21:15	17	11
9:30	17	49	21:30	17	6
9:45	17 79	33 161	21:45	14 68	9 31
10:00	17	24	22:00	12	7
10:15	26	32	22:15	16	14
10:30	26	24	22:30	13	2
10:45	12 81	28 108	22:45	6 47	3 26
11:00	41	25	23:00	9	5
11:15	32	39	23:15	14	8
11:30	29	21	23:30	2	5
11:45	33 135	38 123	23:45	7 32	5 23

Total Vol.	596	1188	1784	1558	1010	2568
				Daily Totals		
				NB	SB	Combined
				2154	2198	4352

	AM			PM		
Split %	33.4%	66.6%	41.0%	60.7%	39.3%	59.0%
Peak Hour	11:00	7:15	7:15	17:00	15:15	16:45
Volume	135	283	363	263	152	375
P.H.F.	0.82	0.90	0.87	0.96	0.79	0.88

ADT73 Yorba Linda Blvd from Bradford Ave to McCormack Lane.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB		
0:00	10		15		12:00	163		172		
0:15	13		10		12:15	188		203		
0:30	13		8		12:30	150		174		
0:45	10	46	9	42	88	12:45	194	695	211	760
1:00	10		8		13:00	178		223		
1:15	6		6		13:15	194		208		
1:30	10		9		13:30	185		186		
1:45	8	34	2	25	59	13:45	202	759	163	780
2:00	6		3		14:00	174		178		
2:15	7		2		14:15	226		210		
2:30	5		3		14:30	201		223		
2:45	7	25	4	12	37	14:45	184	785	219	830
3:00	5		8		15:00	205		204		
3:15	8		5		15:15	215		215		
3:30	7		5		15:30	231		236		
3:45	9	29	12	30	59	15:45	216	867	212	867
4:00	14		10		16:00	191		175		
4:15	16		12		16:15	223		203		
4:30	14		18		16:30	204		215		
4:45	25	69	23	63	132	16:45	214	832	211	804
5:00	21		27		17:00	225		224		
5:15	25		34		17:15	194		194		
5:30	30		40		17:30	225		174		
5:45	42	118	54	155	273	17:45	206	850	185	777
6:00	51		81		18:00	214		201		
6:15	45		92		18:15	194		174		
6:30	94		104		18:30	184		164		
6:45	103	293	123	400	693	18:45	173	765	136	675
7:00	123		132		19:00	145		142		
7:15	163		195		19:15	154		127		
7:30	194		224		19:30	132		103		
7:45	213	693	245	796	1489	19:45	104	535	127	499
8:00	174		207		20:00	95		121		
8:15	180		221		20:15	103		103		
8:30	157		197		20:30	98		108		
8:45	203	714	234	859	1573	20:45	89	385	85	417
9:00	175		241		21:00	75		86		
9:15	168		203		21:15	67		72		
9:30	160		192		21:30	62		90		
9:45	142	645	171	807	1452	21:45	80	284	71	319
10:00	148		142		22:00	63		63		
10:15	131		127		22:15	54		45		
10:30	145		134		22:30	52		28		
10:45	142	566	156	559	1125	22:45	42	211	32	168
11:00	166		145		23:00	33		22		
11:15	142		176		23:15	25		16		
11:30	183		142		23:30	24		11		
11:45	190	681	156	619	1300	23:45	26	108	12	61

Total Vol.	3913	4367	8280		7076	6957		14033
					Daily Totals			Combined
					EB	WB		
					10989	11324		22313

	AM			PM		
Split %	47.3%	52.7%	37.1%	50.4%	49.6%	62.9%
Peak Hour	7:30	7:30	7:30	15:00	14:45	15:00
Volume	761	897	1658	867	874	1734
P.H.F.	0.89	0.92	0.91	0.95	0.93	0.93

ADT74 Yorba Linda Blvd from McCormack Lane to East City Limit.

Prepared by AimTD LLC tel. 714 253 7888

AM Period	EB		WB		PM Period	EB		WB	
0:00	11		15		12:00	162		196	
0:15	12		14		12:15	145		205	
0:30	7		13		12:30	201		174	
0:45	5	35	16	58	12:45	209	717	204	779
					1496				
1:00	6		7		13:00	182		167	
1:15	6		5		13:15	193		205	
1:30	7		7		13:30	203		174	
1:45	5	24	8	27	13:45	174	752	204	750
					1502				
2:00	4		5		14:00	142		195	
2:15	7		8		14:15	156		176	
2:30	5		8		14:30	196		182	
2:45	4	20	8	29	14:45	213	707	201	754
					1461				
3:00	11		5		15:00	193		185	
3:15	7		7		15:15	198		205	
3:30	6		7		15:30	203		194	
3:45	12	36	11	30	15:45	214	808	176	760
					1568				
4:00	13		10		16:00	205		204	
4:15	21		16		16:15	195		178	
4:30	17		19		16:30	218		210	
4:45	25	76	21	66	16:45	222	840	203	795
					1635				
5:00	18		25		17:00	189		224	
5:15	21		22		17:15	213		170	
5:30	28		31		17:30	234		193	
5:45	31	98	33	111	17:45	226	862	191	778
					1640				
6:00	46		45		18:00	204		219	
6:15	52		52		18:15	171		201	
6:30	103		66		18:30	185		169	
6:45	94	295	107	270	18:45	203	763	173	762
					1525				
7:00	113		123		19:00	156		152	
7:15	142		174		19:15	152		131	
7:30	189		205		19:30	142		124	
7:45	203	647	215	717	19:45	125	575	132	539
					1114				
8:00	167		156		20:00	95		94	
8:15	172		167		20:15	115		103	
8:30	162		214		20:30	98		96	
8:45	176	677	225	762	20:45	92	400	75	368
					768				
9:00	211		212		21:00	74		75	
9:15	196		184		21:15	61		85	
9:30	167		175		21:30	68		85	
9:45	173	747	152	723	21:45	45	248	64	309
					557				
10:00	146		134		22:00	43		54	
10:15	139		156		22:15	42		42	
10:30	162		174		22:30	32		38	
10:45	152	599	157	621	22:45	40	157	32	166
					323				
11:00	132		162		23:00	33		31	
11:15	142		173		23:15	25		21	
11:30	164		148		23:30	17		14	
11:45	183	621	152	635	23:45	18	93	15	81
					174				

Total Vol.	3875	4049	7924		6922	6841		13763
					Daily Totals			
					EB	WB		Combined
					10797	10890		21687

	AM			PM		
Split %	48.9%	51.1%	36.5%	50.3%	49.7%	63.5%
Peak Hour	8:45	8:30	8:30	17:15	16:15	17:15
Volume	750	835	1580	877	815	1650
P.H.F.	0.89	0.93	0.93	0.96	0.91	0.97

APPENDIX D

Crash Summary

Total Collisions by Segment All - Collision Severity

Segment	Fatal	Severe Injury	Visible Injury	Complaint of Pain	Property Damage Only (PDO)	Total Collisions
ORANGETHORPE AVE	1	3	29	44	94	172
PLACENTIA AVE	1	4	40	46	75	166
CHAPMAN AVE			18	46	58	123
YORBA LINDA BLVD		2	16	24	79	123
KRAEMER BLVD		1	19	30	63	113
ROSE DR		2	15	28	43	88
BASTANCHURY RD		4	13	36	27	80
BRADFORD AVE			10	12	37	59
MELROSE ST		1	3	10	30	45
ALTA VISTA ST			9	8	23	40
LA JOLLA ST		1	6	8	20	35
VALENCIA AVE			8	5	20	33
CENTER ST			5	1	21	27
PALM DR			6	7	14	27
VAN BUREN ST			4	8	12	24
SANTA FE AVE		1	1	1	17	20
ANGELINA DR				2	16	18
JEFFERSON ST		2	1	7	8	18
LINDA VISTA ST				1	11	12
MCCORMACK LN		1	2	1	8	12
GOLDEN AVE			2	1	8	11
CROWTHER AVE			3		7	10
MURRAY ST				1	9	10
RICHFIELD RD			1	3	6	10
MIRALOMA AVE			4	2	3	9
ORCHARD DR			2		7	9
RUBY DR			1		8	9
CHERRY ST					8	8
LAKEVIEW AVE			4		4	8
BUENA VISTA AVE				2	5	7
TAFOLLA ST			1	1	5	7
PRIMROSE AVE			1		4	6
TUFFREE BLVD			2	1	3	6
WALLGREEN ST			1		5	6
BACKS LN					5	5
MADISON AVE			1	1	3	5
MORSE AVE			2	1	2	5
CENTRAL AVE			2		2	4
DEL CERRO DR				2	2	4
HIGHLAND AVE			1	1	2	4
MONTEREY CIR					4	4
SOMERSET DR					4	4
SUNSET DR					4	4
VINCENTE AVE			1		3	4
WALNUT AVE				2	2	4
BLUE RIDGE DR					3	3
CHICKASAW DR			1		2	3
CYPRESS AVE					3	3
KIMBERLY AVE				2	1	3
LAWRENCE ST					3	3
LINCOLN ST					3	3
OHIO AVE			1		2	3
PRIVATE PROPERTY					3	3

SPRUCE ST						3	3
TWILIGHT ST						3	3
VISTA AVE						3	3
ANNED DR						2	2
ARNOLD DR						2	2
BROOKHAVEN AVE			2				2
CARTLEN DR						2	2
COBB AVE						2	2
DUNNAVANT DR						2	2
EASTON ST					1	1	2
EDWARDS LN						2	2
ENCINITAS WY						2	2
IOWA PL						2	2
KOCH AVE						2	2
LYONS WY						2	2
MAIN ST					1	1	2
MISSION WY					1	1	2
OAHU WY						2	2
ORIOLE AVE					1	1	2
POWELL DR						2	2
RAMONA ST						2	2
SAINT JOHN WY						2	2
SANTA BARBARA ST						2	2
SHERWOOD AVE			1			1	2
ALTA ST					1		1
ANDERSON ST						1	1
AQUEDUCT DR						1	1
BAGNALL AVE						1	1
BAKER ST						1	1
BAY MEADOW DR						1	1
BEAL AVE						1	1
BELMONT WAY			1				1
BOONE WY						1	1
BROOKLYN DR						1	1
BSTANCHURY RD						1	1
BUCK PL						1	1
CALIENT CT						1	1
CALLE DEL CORONADO						1	1
CAMARILLO ST					1		1
CAPISTRANO ST						1	1
CARLSON LN						1	1
COLGATE DR						1	1
CRON WY					1		1
CYPRESS POINT DR						1	1
DEMME DR						1	1
DEPOT ST			1				1
DIANE AVE						1	1
DOVERFIELD DR						1	1
EASTWIND CIR						1	1
EL CABRILLO						1	1
EL PASEO						1	1
EVELYN PL						1	1
FEE ANA ST						1	1
FORDHAM DR						1	1
GARFIELD AVE					1		1
GARTEN DR						1	1

GOETZ PL						1	1
GOLDEN WY						1	1
GONZALES ST						1	1
HAWTHORNE ST						1	1
HOCK AVE						1	1
HOLCOMB PL						1	1
HOLLYHOCK LN						1	1
HUNDLEY WY						1	1
JASMINE LN				1			1
KANSAS AVE						1	1
KENOAK DR						1	1
KEY DR					1		1
LADERA PL						1	1
LAKEVIEW LOOP						1	1
LASTERBROOK ST						1	1
LAURELWOOD AVE						1	1
LAVENDER LN				1			1
LEE PL						1	1
LEMKE DR						1	1
LIVINGSTON AVE						1	1
LOS ALAMITOS DR						1	1
LOUISE DR						1	1
LOYOLA WY				1			1
MACADAMIA LN						1	1
MAERTZWEILER DR						1	1
MELODY LN						1	1
MISSOURI AVE						1	1
MONROE WY						1	1
MORENO WY						1	1
MORO CIR						1	1
NAVAJO AVE						1	1
NENNO AVE						1	1
OAK ST						1	1
ORCHID DR						1	1
PEARL DR						1	1
PEMBROKE PL						1	1
PINEHURST AVE				1			1
PROSPECT AVE						1	1
PUERTO NATALES DR						1	1
RASHFORD DR						1	1
REEF CIR						1	1
ROCKAWAY DR						1	1
ROLLING HILLS DR						1	1
ROXBOROUGH DR				1			1
RUSSEL CIR						1	1
SAINT JAMES PL						1	1
SAO PAULO AVE						1	1
SEAVIEW CIR						1	1
SHEFFIELD ST						1	1
SHEPARD CIR						1	1
SIERRA MADRE CIR						1	1
SNOW LN						1	1
SPAHN LN						1	1
STANFORD DR						1	1
SUNRISE WY						1	1
TAHOE DR						1	1

TANFORAN AVE						1	1
TERRACE ST						1	1
TRAUB LN						1	1
TURF DR						1	1
VALPARAISO DR				1			1
VENTURA AVE						1	1
VETERANS WY						1	1
WILSON AVE						1	1
WINGFOOT ST						1	1
YORBA PL						1	1
ZIEGLER WY						1	1

Total Collisions by Segment All - Collision Type

Segment	Broadside	Head-On	Hit Object	Other	Overturned	Rear End	Sideswipe	Vehicle/ Pedestrian	Total Collisions
ORANGETHORPE AVE	52	9	31	3	2	49	23	3	172
PLACENTIA AVE	61	23	23	5	2	22	25	5	166
CHAPMAN AVE	47	4	6	3	1	34	20	8	123
YORBA LINDA BLVD	24	3	28	7	2	34	22	3	123
KRAEMER BLVD	27	7	18	1	3	30	23	4	113
ROSE DR	31	4	13	1	1	27	8	3	88
BASTANCHURY RD	36	5	6	1	2	22	6	2	80
BRADFORD AVE	14	3	4	6		17	13	2	59
MELROSE ST	12	2	5	2		8	12	4	45
ALTA VISTA ST	12		6	2		10	7	3	40
LA JOLLA ST	7	1	3	2		9	9	4	35
VALENCIA AVE	12	2	8	1		3	5	2	33
CENTER ST	5	1	2	3		4	9	3	27
PALM DR	14	1	3			7	1	1	27
VAN BUREN ST	6	2	3		1	6	6		24
SANTA FE AVE	4		5			4	6	1	20
ANGELINA DR	3		3			1	10	1	18
JEFFERSON ST	5		6	1	1	3	2		18
LINDA VISTA ST	3		1	1		1	6		12
MCCORMACK LN	2	2	4			2	2		12
GOLDEN AVE	1	3	1	1		1	4		11
CROWTHER AVE	2	1	5			2			10
MURRAY ST	2	2	1	2			3		10
RICHFIELD RD	4	1	3				2		10
MIRALOMA AVE	4	1	3					1	9
ORCHARD DR	3		2	1		1	2		9
RUBY DR	1					2	6		9
CHERRY ST	3			1			4		8
LAKEVIEW AVE	4		1		2		1		8
BUENA VISTA AVE	5					1	1		7
TAFOLLA ST	1						6		7
PRIMROSE AVE	1	1	1	1		1	1		6
TUFFREE BLVD			2			1	3		6
WALLGREEN ST	1					1	4		6
BACKS LN	1	1	1			1	1		5
MADISON AVE	2		1			1		1	5
MORSE AVE	2		1			1	1		5
CENTRAL AVE	2		1	1					4
DEL CERRO DR			4						4
HIGHLAND AVE	2	1				1			4
MONTEREY CIR			1	1			2		4
SOMERSET DR		1	1			1	1		4
SUNSET DR						3	1		4
VINCENTE AVE	1		1			1	1		4
WALNUT AVE	2	1				1			4
BLUE RIDGE DR	1	1					1		3
CHICKASAW DR			2				1		3
CYPRESS AVE							3		3
KIMBERLY AVE		1	1			1			3
LAWRENCE ST				1		1	1		3
LINCOLN ST				2			1		3
OHIO AVE							3		3
PRIVATE PROPERTY		1	1				1		3
SPRUCE ST							3		3
TWILIGHT ST		1					2		3
VISTA AVE			1				2		3
ANNED DR							2		2
ARNOLD DR				1			1		2
BROOKHAVEN AVE						1		1	2
CARTLEN DR							2		2
COBB AVE							2		2
DUNNAVANT DR			1					1	2
EASTON ST	1					1			2

EDWARDS LN			2						2
ENCINITAS WY		1	1						2
IOWA PL		1	1						2
KOCH AVE			1			1			2
LYONS WY			1	1					2
MAIN ST	1				1				2
MISSION WY	1							1	2
OAHU WY	1			1					2
ORIOLE AVE	1		1						2
POWELL DR		1	1						2
RAMONA ST						1	1		2
SAINT JOHN WY						1	1		2
SANTA BARBARA ST	1					1			2
SHERWOOD AVE		1	1						2
ALTA ST	1								1
ANDERSON ST						1			1
AQUEDUCT DR				1					1
BAGNALL AVE	1								1
BAKER ST						1			1
BAY MEADOW DR		1							1
BEAL AVE							1		1
BELMONT WAY				1					1
BOONE WY						1			1
BROOKLYN DR							1		1
BSTANCHURY RD						1			1
BUCK PL			1						1
CALIENT CT		1							1
CALLE DEL CORONADO				1					1
CAMARILLO ST	1								1
CAPISTRANO ST							1		1
CARLSON LN				1					1
COLGATE DR			1						1
CRON WY							1		1
CYPRESS POINT DR			1						1
DEMME DR			1						1
DEPOT ST			1						1
DIANE AVE				1					1
DOVERFIELD DR			1						1
EASTWIND CIR			1						1
EL CABRILLO	1								1
EL PASEO							1		1
EVELYN PL				1					1
FEE ANA ST						1			1
FORDHAM DR						1			1
GARFIELD AVE	1								1
GARTEN DR			1						1
GOETZ PL							1		1
GOLDEN WY			1						1
GONZALES ST							1		1
HAWTHORNE ST							1		1
HOCK AVE	1								1
HOLCOMB PL			1						1
HOLLYHOCK LN							1		1
HUNDLEY WY						1			1
JASMINE LN			1						1
KANSAS AVE				1					1
KENOAK DR						1			1
KEY DR		1							1
LADERA PL						1			1
LAKEVIEW LOOP			1						1
LASTERBROOK ST							1		1
LAURELWOOD AVE		1							1
LAVENDER LN			1						1
LEE PL							1		1
LEMKE DR				1					1
LIVINGSTON AVE		1							1

LOS ALAMITOS DR								1	1
LOUISE DR			1						1
LOYOLA WY								1	1
MACADAMIA LN			1						1
MAERTZWEILER DR							1		1
MELODY LN						1			1
MISSOURI AVE				1					1
MONROE WY			1						1
MORENO WY							1		1
MORO CIR			1						1
NAVAJO AVE							1		1
NENNO AVE							1		1
OAK ST							1		1
ORCHID DR							1		1
PEARL DR				1					1
PEMBROKE PL			1						1
PINEHURST AVE		1							1
PROSPECT AVE							1		1
PUERTO NATALES DR		1							1
RASHFORD DR			1						1
REEF CIR							1		1
ROCKAWAY DR							1		1
ROLLING HILLS DR			1						1
ROXBOROUGH DR	1								1
RUSSEL CIR				1					1
SAINT JAMES PL							1		1
SAO PAULO AVE			1						1
SEAVIEW CIR			1						1
SHEFFIELD ST			1						1
SHEPARD CIR				1					1
SIERRA MADRE CIR				1					1
SNOW LN			1						1
SPAHN LN				1					1
STANFORD DR						1			1
SUNRISE WY							1		1
TAHOE DR	1								1
TANFORAN AVE			1						1
TERRACE ST				1					1
TRAUB LN							1		1
TURF DR				1					1
VALPARAISO DR		1							1
VENTURA AVE						1			1
VETERANS WY							1		1
WILSON AVE							1		1
WINGFOOT ST							1		1
YORBA PL			1						1
ZIEGLER WY				1					1

APPENDIX E

E&TS Sheets

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ALL AMERICA WAY	CERTIFICATION DATE	2/15/2024
FROM	ALTA VISTA ST	TO	CHAPMAN AVE

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	35 mph
Time of Speed Survey	2:00 PM	Speed Justification	
50th Percentile Speed	31.8 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	35.8 mph		
Arithmetic Mean	31.8 mph		
10 mph Pace Speed	28 - 37	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	81%		
Number of Survey Samples	106		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	0		
Annual Collision Rate	0.00	accidents/year	
Collisions per Million Vehicle Miles	0.00		

TRAFFIC FACTORS

2024 Average Daily Traffic	1,259
Number of Lanes	2
Crosswalk	DARTMOUTH
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.36	miles
Width	40	feet
Vertical Curve	NO	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ALTA VISTA ST	CERTIFICATION DATE	2/15/2024
FROM	ANGELINA DR	TO	KRAEMER BLVD

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	25	mph
Time of Speed Survey	9:05 AM	Speed Justification		
50th Percentile Speed	25.8	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	29.0	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	25.8	mph	below the 85th percentile speed.	
10 mph Pace Speed	22 - 31	Recommended Speed Limit	25	mph
Percentage of Vehicles in Pace	89%			
Number of Survey Samples	103			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	40	
Annual Collision Rate	8.00	accidents/year
Collisions per Million Vehicle Miles	0.95	

TRAFFIC FACTORS

2024 Average Daily Traffic	3,518
Number of Lanes	2
Crosswalk	KRAEMER, ANGELINA
Pedestrian Traffic	HEAVY
Truck Traffic	LIGHT
On-Street Parking	NORTH SIDE
Sidewalks	BOTH SIDES
Driveways	NORTH SIDE

ROADWAY FACTORS

Length of Segment	0.16	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	SOUTH SIDE	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ALTA VISTA ST	CERTIFICATION DATE	2/15/2024
FROM	KRAEMER BLVD	TO	ROSE DR

SPEED FACTORS

Date of Speed Survey	10/3/2023	Posted Speed Limit	45	mph
Time of Speed Survey	2:14 PM	Speed Justification		
50th Percentile Speed	40.2	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	45.4	mph		
Arithmetic Mean	40.2	mph		
10 mph Pace Speed	37 - 46	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	73%			
Number of Survey Samples	108			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	40	
Annual Collision Rate	8.00	accidents/year
Collisions per Million Vehicle Miles	0.95	

TRAFFIC FACTORS

2024 Average Daily Traffic	11,767
Number of Lanes	4 WITH PAINTED MEDIAN
Crosswalk	KRAEMER, CENTRAL, DUNNAVANT, ROSE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	1.08	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET ALTA VISTA ST **CERTIFICATION DATE** 2/15/2024
FROM ROSE DR **TO** JEFFERSON ST

SPEED FACTORS

Date of Speed Survey	10/3/2023	Posted Speed Limit	45	mph
Time of Speed Survey	12:25 PM	Speed Justification		
50th Percentile Speed	41.0	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	46.2	mph		
Arithmetic Mean	41.0	mph		
10 mph Pace Speed	38 - 47	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	72%			
Number of Survey Samples	104			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	40	
Annual Collision Rate	8.00	accidents/year
Collisions per Million Vehicle Miles	0.95	

TRAFFIC FACTORS

2024 Average Daily Traffic	8,075
Number of Lanes	4
Crosswalk	ROSE, JEFFERSON
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.37	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET ALTA VISTA ST

CERTIFICATION DATE

2/15/2024

FROM JEFFERSON ST

TO VAN BUREN ST

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	40	mph
Time of Speed Survey	1:45 PM	Speed Justification		
50th Percentile Speed	38.5	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	43.1	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	38.5	mph	below the 85th percentile speed.	
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	75%			
Number of Survey Samples	102			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	40	
Annual Collision Rate	8.00	accidents/year
Collisions per Million Vehicle Miles	0.95	

TRAFFIC FACTORS

2024 Average Daily Traffic	4,546
Number of Lanes	4
Crosswalk	JEFFERSON, VAN BUREN
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.35	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET ANGELINA DR **CERTIFICATION DATE** 2/15/2024
FROM CHAPMAN AVE **TO** ALTA VISTA ST

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	35	mph
Time of Speed Survey	10:13 AM	Speed Justification		
50th Percentile Speed	32.4	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	37.5	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	32.4	mph	below the 85th percentile speed.	
10 mph Pace Speed	28 - 37	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	68%			
Number of Survey Samples	101			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	18	
Annual Collision Rate	3.60	accidents/year
Collisions per Million Vehicle Miles	6.82	

TRAFFIC FACTORS

2024 Average Daily Traffic	2,299
Number of Lanes	2
Crosswalk	CHAPMAN, ALTA VISTA
Pedestrian Traffic	HEAVY
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.37	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET ANGELINA DR **CERTIFICATION DATE** 2/15/2024
FROM MORSE AVE **TO** PALM DR

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	35	mph
Time of Speed Survey	12:08 PM	Speed Justification		
50th Percentile Speed	30.1	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	34.7	mph		
Arithmetic Mean	30.1	mph		
10 mph Pace Speed	25 - 34	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	74%			
Number of Survey Samples	107			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	18	
Annual Collision Rate	3.60	accidents/year
Collisions per Million Vehicle Miles	6.82	

TRAFFIC FACTORS

2024 Average Daily Traffic	2,538
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	EAST SIDE ONLY
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.20	miles
Width	34	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	BASTANCHURY RD	CERTIFICATION DATE	2/15/2024
FROM	WEST CITY LIMIT	TO	KRAEMER BLVD

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	45	mph
Time of Speed Survey	9:15 AM	Speed Justification		
50th Percentile Speed	38.6	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	45.3	mph		
Arithmetic Mean	38.6	mph		
10 mph Pace Speed	33 - 42	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	59%			
Number of Survey Samples	108			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	80	
Annual Collision Rate	16.00	accidents/year
Collisions per Million Vehicle Miles	0.88	

TRAFFIC FACTORS

2024 Average Daily Traffic	24,664
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	PLACENTIA, TUFFREE, KRAEMER
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.74	miles
Width	84	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	IN RAISED MEDIAN	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	BASTANCHURY RD	CERTIFICATION DATE	2/15/2024
FROM	KRAEMER BLVD	TO	VALENCIA AVE

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	45 mph
Time of Speed Survey	12:37 PM	Speed Justification	
50th Percentile Speed	40.0 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	45.5 mph		
Arithmetic Mean	40.0 mph		
10 mph Pace Speed	37 - 46	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	66%		
Number of Survey Samples	106		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	80		
Annual Collision Rate	16.00	accidents/year	
Collisions per Million Vehicle Miles	0.88		

TRAFFIC FACTORS

2024 Average Daily Traffic	20,195
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	KRAEMER, BROOKHAVEN, VALENCIA
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.48	miles	
Width	82	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	IN RAISED MEDIAN		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET BASTANCHURY RD **CERTIFICATION DATE** 2/15/2024
FROM VALENCIA AVE **TO** EAST CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	45	mph
Time of Speed Survey	10:00 AM	Speed Justification		
50th Percentile Speed	43.4	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	47.9	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	43.4	mph	below the 85th percentile speed.	
10 mph Pace Speed	39 - 48	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	76%			
Number of Survey Samples	105			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	80	
Annual Collision Rate	16.00	accidents/year
Collisions per Million Vehicle Miles	0.88	

TRAFFIC FACTORS

2024 Average Daily Traffic	16,307
Number of Lanes	4 WITH TWLTL
Crosswalk	VALENCIA, MCCORMACK
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	SOUTH SIDE ONLY EAST OF HARTE
Sidewalks	BOTH SIDES
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.80	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	SOUTH SIDE	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	BRADFORD AVE	CERTIFICATION DATE	2/15/2024
FROM	SANTA FE AVE	TO	CHAPMAN AVE

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	25 mph
Time of Speed Survey	9:58 AM	Speed Justification	
50th Percentile Speed	23.6 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	27.7 mph		
Arithmetic Mean	23.6 mph		
10 mph Pace Speed	18 - 27	Recommended Speed Limit	25 mph
Percentage of Vehicles in Pace	83%		
Number of Survey Samples	103		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	59		
Annual Collision Rate	11.80	accidents/year	
Collisions per Million Vehicle Miles	2.27		

TRAFFIC FACTORS

2024 Average Daily Traffic	4,209
Number of Lanes	2
Crosswalk	CHAPMAN, CENTER, SANTA FE
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.23	miles
Width	40	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET BRADFORD AVE
FROM CHAPMAN AVE

CERTIFICATION DATE 2/15/2024
TO MADISON AVE

SPEED FACTORS

Date of Speed Survey	10/5/2023	Posted Speed Limit	30	mph
Time of Speed Survey	12:50 PM	Speed Justification		
50th Percentile Speed	30.5	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	34.3	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	30.5	mph	below the 85th percentile speed.	
10 mph Pace Speed	27 - 36	Recommended Speed Limit	30	mph
Percentage of Vehicles in Pace	83%			
Number of Survey Samples	104			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	59	
Annual Collision Rate	11.80	accidents/year
Collisions per Million Vehicle Miles	2.27	

TRAFFIC FACTORS

2024 Average Daily Traffic	7,387
Number of Lanes	2
Crosswalk	RUBY, PRIMROSE, ORCHID, WILSON
Pedestrian Traffic	HEAVY
Truck Traffic	LIGHT
On-Street Parking	WEST SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.61	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	EAST SIDE	
Adjacent Land Use	SCHOOL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	BRADFORD AVE	CERTIFICATION DATE	2/15/2024
FROM	MADISON AVE	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/5/2023	Posted Speed Limit	35 mph
Time of Speed Survey	2:18 PM	Speed Justification	
50th Percentile Speed	32.9 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	38.1 mph		
Arithmetic Mean	32.9 mph		
10 mph Pace Speed	28 - 37	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	69%		
Number of Survey Samples	106		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	59		
Annual Collision Rate	11.80	accidents/year	
Collisions per Million Vehicle Miles	2.27		

TRAFFIC FACTORS

2024 Average Daily Traffic	9,418
Number of Lanes	2
Crosswalk	MADISON
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.10	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	BROOKHAVEN AVE	CERTIFICATION DATE	2/15/2024
FROM	YORBA LINDA BLVD	TO	BASTANCHURY RD

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	30 mph
Time of Speed Survey	11:32 AM	Speed Justification	
50th Percentile Speed	27.3 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	33.4 mph		
Arithmetic Mean	27.3 mph		
10 mph Pace Speed	24 - 33	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	64%		
Number of Survey Samples	45		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	2		
Annual Collision Rate	0.40	accidents/year	
Collisions per Million Vehicle Miles	1.36		

TRAFFIC FACTORS

2024 Average Daily Traffic	1,617
Number of Lanes	2
Crosswalk	BASTANCHURY
Pedestrian Traffic	HEAVY
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.50	miles	
Width	40	feet	
Vertical Curve	NO		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	WEST SIDE		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	BUENA VISTA AVE	CERTIFICATION DATE	2/15/2024
FROM	ROSE DR	TO	EAST CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	45 mph
Time of Speed Survey	1:15 PM	Speed Justification	
50th Percentile Speed	40.7 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	45.6 mph		
Arithmetic Mean	40.7 mph		
10 mph Pace Speed	38 - 47	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	70%		
Number of Survey Samples	105		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	7		
Annual Collision Rate	1.40	accidents/year	
Collisions per Million Vehicle Miles	0.44		

TRAFFIC FACTORS

2024 Average Daily Traffic	8,705
Number of Lanes	4 WITH PAINTED MEDIAN
Crosswalk	ROSE, VAN BUREN
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NORTH SIDE

ROADWAY FACTORS

Length of Segment	1.00	miles	
Width	64	feet	
Vertical Curve	YES		
Horizontal Curve	NO		
Visibility	FAIR		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	CENTRAL AVE	CERTIFICATION DATE	2/15/2024
FROM	CHAPMAN AVE	TO	ALTA VISTA ST

SPEED FACTORS

Date of Speed Survey	10/3/2023	Posted Speed Limit	40 mph
Time of Speed Survey	1:40 PM	Speed Justification	
50th Percentile Speed	35.5 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	40.6 mph		
Arithmetic Mean	35.5 mph		
10 mph Pace Speed	29 - 38	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	73%		
Number of Survey Samples	103		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	4		
Annual Collision Rate	0.80	accidents/year	
Collisions per Million Vehicle Miles	2.28		

TRAFFIC FACTORS

2024 Average Daily Traffic	2,824
Number of Lanes	2
Crosswalk	CHAPMAN, ALTA VISTA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.34	miles	
Width	52	feet	
Vertical Curve	YES		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	CHAPMAN AVE	CERTIFICATION DATE	2/15/2024
FROM	PLACENTIA AVE	TO	KRAEMER BLVD

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	35 mph
Time of Speed Survey	11:25 AM	Speed Justification	
50th Percentile Speed	35.0 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	38.9 mph		
Arithmetic Mean	35.0 mph		
10 mph Pace Speed	31 - 40	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	87%		
Number of Survey Samples	108		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	123		
Annual Collision Rate	24.60	accidents/year	
Collisions per Million Vehicle Miles	2.27		

TRAFFIC FACTORS

2024 Average Daily Traffic	15,848
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	PLACENTIA, MELODY, MURRAY, MELROSE, BRADFORD, ANGELINA
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	SOTH SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.96	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES & IN MEDIAN	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	CHAPMAN AVE	CERTIFICATION DATE	2/15/2024
FROM	KRAEMER BLVD	TO	ORANGETHORPE AVE

SPEED FACTORS

Date of Speed Survey	10/3/2023	Posted Speed Limit	40	mph
Time of Speed Survey	1:10 PM	Speed Justification		
50th Percentile Speed	37.4	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	42.3	mph		
Arithmetic Mean	37.4	mph		
10 mph Pace Speed	33 - 42	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	72%			
Number of Survey Samples	109			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	123	
Annual Collision Rate	24.60	accidents/year
Collisions per Million Vehicle Miles	5.26	

TRAFFIC FACTORS

2024 Average Daily Traffic	6,847
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	KRAEMER, CENTRAL, ORANGETHORPE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.91	miles
Width	82	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	IN RAISED MEDIAN	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET CROWTHER AVE
FROM PLACENTIA AVE

CERTIFICATION DATE 2/15/2024
TO PORTER WAY

SPEED FACTORS

Date of Speed Survey	11/14/2023	Posted Speed Limit	40	mph
Time of Speed Survey	9:00 AM	Speed Justification		
50th Percentile Speed	33.3	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	37.9	mph		
Arithmetic Mean	33.3	mph		
10 mph Pace Speed	29 - 38	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	78%			
Number of Survey Samples	102			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	10	
Annual Collision Rate	2.00	accidents/year
Collisions per Million Vehicle Miles	0.91	

TRAFFIC FACTORS

2024 Average Daily Traffic	5,517
Number of Lanes	2 - 3
Crosswalk	PLACENTIA, MELROSE
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	SOUTH SIDE
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.83	miles
Width	44	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	CROWTHER AVE	CERTIFICATION DATE	2/15/2024
FROM	PORTER WAY	TO	EAST CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	45	mph
Time of Speed Survey	11:30 AM	Speed Justification	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
50th Percentile Speed	43.7	mph		
85th Percentile Speed	48.6	mph		
Arithmetic Mean	43.7	mph		
10 mph Pace Speed	39 - 48	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	80%			
Number of Survey Samples	106			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	10	
Annual Collision Rate	2.00	accidents/year
Collisions per Million Vehicle Miles	0.91	

TRAFFIC FACTORS

2024 Average Daily Traffic	4,747
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	SOUTH SIDE
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.26	miles
Width	45	feet
Vertical Curve	NONE	
Horizontal Curve	NONE	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	SOUTH SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET FEE ANA ST **CERTIFICATION DATE** 2/15/2024
FROM SOUTH CITY LIMIT **TO** NORTH TERMINUS

SPEED FACTORS

Date of Speed Survey	10/18/2023	Posted Speed Limit	35	mph
Time of Speed Survey	1:49 PM	Speed Justification		
50th Percentile Speed	30.1	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	36.5	mph		
Arithmetic Mean	30.1	mph		
10 mph Pace Speed	25 - 34	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	72%			
Number of Survey Samples	100			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	1	
Annual Collision Rate	0.20	accidents/year
Collisions per Million Vehicle Miles	0.38	

TRAFFIC FACTORS

2024 Average Daily Traffic	2,063
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.70	miles
Width	52	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	GOLDEN AVE	CERTIFICATION DATE	2/15/2024
FROM	KRAEMER BLVD	TO	VALENCIA AVE

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	40 mph
Time of Speed Survey	1:18 PM	Speed Justification	
50th Percentile Speed	39.0 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	43.8 mph		
Arithmetic Mean	39.0 mph		
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	72%		
Number of Survey Samples	107		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	11		
Annual Collision Rate	2.20	accidents/year	
Collisions per Million Vehicle Miles	1.10		

TRAFFIC FACTORS

2024 Average Daily Traffic	5,005
Number of Lanes	2
Crosswalk	KRAEMER, VALENCIA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.49	miles	
Width	64	feet	
Vertical Curve	NO		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	GOLDEN AVE	CERTIFICATION DATE	2/15/2024
FROM	VALENCIA AVE	TO	EAST CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	35 mph
Time of Speed Survey	10:35 AM	Speed Justification	
50th Percentile Speed	34.2 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	38.6 mph		
Arithmetic Mean	34.2 mph		
10 mph Pace Speed	29 - 38	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	78%		
Number of Survey Samples	103		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	11		
Annual Collision Rate	2.20	accidents/year	
Collisions per Million Vehicle Miles	1.10		

TRAFFIC FACTORS

2024 Average Daily Traffic	3,967
Number of Lanes	2
Crosswalk	VALENCIA, ROSE, CHICKASAW
Pedestrian Traffic	HEAVY
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.60	miles	
Width	64	feet	
Vertical Curve	NO		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	NORTH SIDE		
Adjacent Land Use	RESIDNETIAL		

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M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	HIGHLAND AVE	CERTIFICATION DATE	2/15/2024
FROM	ORANGETHORPE AVE	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/17/2023	Posted Speed Limit	30 mph
Time of Speed Survey	1:50 PM	Speed Justification	
50th Percentile Speed	27.1 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	30.9 mph		
Arithmetic Mean	27.1 mph		
10 mph Pace Speed	23 - 32	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	86%		
Number of Survey Samples	100		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	4		
Annual Collision Rate	0.80	accidents/year	
Collisions per Million Vehicle Miles	5.09		

TRAFFIC FACTORS

2024 Average Daily Traffic	1,163
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	EAST SIDE SOUTH OF ORCHARD
Sidewalks	BOTH SIDES
Driveways	EAST SIDE

ROADWAY FACTORS

Length of Segment	0.37	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	JEFFERSON AVE	CERTIFICATION DATE	2/15/2024
FROM	SOUTH CITY LIMIT	TO	ORANGETHORPE AVE

SPEED FACTORS

Date of Speed Survey	10/19/2023	Posted Speed Limit	40 mph
Time of Speed Survey	10:30 AM	Speed Justification	
50th Percentile Speed	36.6 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	43.2 mph		
Arithmetic Mean	36.6 mph		
10 mph Pace Speed	30 - 39	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	62%		
Number of Survey Samples	103		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	18		
Annual Collision Rate	3.60	accidents/year	
Collisions per Million Vehicle Miles	3.40		

TRAFFIC FACTORS

2024 Average Daily Traffic	3,374
Number of Lanes	2
Crosswalk	ORANGETHORPE
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	WEST SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.30	miles	
Width	64	feet	
Vertical Curve	NO		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	EAST SIDE		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	KRAEMER BLVD	CERTIFICATION DATE	2/15/2024
FROM	SOUTH CITY LIMIT	TO	ORANGETHORPE AVE

SPEED FACTORS

Date of Speed Survey	9/27/2023	Posted Speed Limit	40 mph
Time of Speed Survey	12:20 PM	Speed Justification	
50th Percentile Speed	37.1 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	42.3 mph		
Arithmetic Mean	37.1 mph		
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	67%		
Number of Survey Samples	108		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	113		
Annual Collision Rate	22.60	accidents/year	
Collisions per Million Vehicle Miles	1.02		

TRAFFIC FACTORS

2024 Average Daily Traffic	20,353
Number of Lanes	4 WITH TWLTL
Crosswalk	ORANGETHORPE, LA JOLLA
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.10	miles	
Width	86	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	KRAEMER BLVD	CERTIFICATION DATE	2/15/2024
FROM	CROWTHER AVE	TO	CHAPMAN AVE

SPEED FACTORS

Date of Speed Survey	9/27/2023	Posted Speed Limit	40 mph
Time of Speed Survey	1:08 PM	Speed Justification	
50th Percentile Speed	36.8 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	41.5 mph		
Arithmetic Mean	36.8 mph		
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	74%		
Number of Survey Samples	109		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	113		
Annual Collision Rate	22.60	accidents/year	
Collisions per Million Vehicle Miles	1.02		

TRAFFIC FACTORS

2024 Average Daily Traffic	19,000
Number of Lanes	4 - 6
Crosswalk	CROWTHER, HAWAII
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.19	miles	
Width	84	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	KRAEMER BLVD	CERTIFICATION DATE	2/15/2024
FROM	CHAPMAN AVE	TO	FAIRWAY LANE

SPEED FACTORS

Date of Speed Survey	10/3/2023	Posted Speed Limit	40 mph
Time of Speed Survey	2:35 PM	Speed Justification	
50th Percentile Speed	38.5 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	42.6 mph		
Arithmetic Mean	38.5 mph		
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	83%		
Number of Survey Samples	105		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	113		
Annual Collision Rate	22.60	accidents/year	
Collisions per Million Vehicle Miles	1.02		

TRAFFIC FACTORS

2024 Average Daily Traffic	18,962
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	MADISON, ALTA VISTA, CHAPMAN
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.77	miles
Width	84	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	IN RAISED MEDIAN	
Adjacent Land Use	RESIDNETIAL	

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M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	KRAEMER BLVD	CERTIFICATION DATE	2/15/2024
FROM	FAIRWAY LANE	TO	YORBA LINDA BLVD

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	40 mph
Time of Speed Survey	9:00 AM	Speed Justification	
50th Percentile Speed	38.6 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	42.8 mph		
Arithmetic Mean	38.6 mph		
10 mph Pace Speed	33 - 42	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	77%		
Number of Survey Samples	106		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	113		
Annual Collision Rate	22.60	accidents/year	
Collisions per Million Vehicle Miles	1.02		

TRAFFIC FACTORS

2024 Average Daily Traffic	21,279
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	YORBA LINDA, MORSE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES, NO SW E/S BTWN MORSE & FAIRWAY
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.41	miles	
Width	70	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	FAIR		
Roadway Conditions	GOOD		
Lighting	IN RAISED MEDIAN		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET KRAEMER BLVD
FROM YORBA LINDA BLVD

CERTIFICATION DATE 2/15/2024
TO BASTANCHURY RD

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	45	mph
Time of Speed Survey	11:12 AM	Speed Justification		
50th Percentile Speed	39.9	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	44.6	mph		
Arithmetic Mean	39.9	mph		
10 mph Pace Speed	34 - 43	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	75%			
Number of Survey Samples	126			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	113	
Annual Collision Rate	22.60	accidents/year
Collisions per Million Vehicle Miles	1.02	

TRAFFIC FACTORS

2024 Average Daily Traffic	18,436
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	YORBA LINDA, HUDSON, BASTANCHURY
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.59	miles
Width	84	feet
Vertical Curve	NO	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	IN RAISED MEDIAN	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	KRAEMER BLVD	CERTIFICATION DATE	2/15/2024
FROM	BASTANCHURY RD	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	40	mph
Time of Speed Survey	1:00 PM	Speed Justification		
50th Percentile Speed	38.4	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	43.6	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	38.4	mph	below the 85th percentile speed.	
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	70%			
Number of Survey Samples	109			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	113	
Annual Collision Rate	22.60	accidents/year
Collisions per Million Vehicle Miles	1.02	

TRAFFIC FACTORS

2024 Average Daily Traffic	16,467
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	BASTANCHURY, PATRICIAN, GOLDEN
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES N/O GOLDEN
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.80	miles
Width	84	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	IN RAISED MEDIAN	
Adjacent Land Use	RESIDNETIAL	

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M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	LA JOLLA ST	CERTIFICATION DATE	2/15/2024
FROM	PLACENTIA AVE	TO	MELROSE ST

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	30 mph
Time of Speed Survey	9:35 AM	Speed Justification	
50th Percentile Speed	27.1 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	30.2 mph		
Arithmetic Mean	27.1 mph		
10 mph Pace Speed	23 - 32	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	91%		
Number of Survey Samples	103		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	35		
Annual Collision Rate	7.00	accidents/year	
Collisions per Million Vehicle Miles	3.72		

TRAFFIC FACTORS

2024 Average Daily Traffic	5,994
Number of Lanes	2
Crosswalk	PLACENTIA, MELROSE, ARNOLD
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.66	miles	
Width	40	feet	
Vertical Curve	YES		
Horizontal Curve	YES		
Visibility	GOOD, EXCEPT HIDDEN DRIVEWAYS		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	LA JOLLA ST	CERTIFICATION DATE	2/15/2024
FROM	MELROSE ST	TO	EAST CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/27/2023	Posted Speed Limit	30 mph
Time of Speed Survey	9:50 AM	Speed Justification	
50th Percentile Speed	29.3 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	33.2 mph		
Arithmetic Mean	29.3 mph		
10 mph Pace Speed	25 - 34	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	84%		
Number of Survey Samples	101		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	35		
Annual Collision Rate	7.00	accidents/year	
Collisions per Million Vehicle Miles	3.72		

TRAFFIC FACTORS

2024 Average Daily Traffic	4,664
Number of Lanes	2
Crosswalk	MELROSE
Pedestrian Traffic	LIGHT; HEAVY SCHOOL PEDS
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NORTH SIDE

ROADWAY FACTORS

Length of Segment	0.20	miles
Width	46-50	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	SCHOOL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	LAKEVIEW AVE	CERTIFICATION DATE	2/15/2024
FROM	SOUTH CITY LIMIT	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/18/2023	Posted Speed Limit	45 mph
Time of Speed Survey	1:20 PM	Speed Justification	
50th Percentile Speed	42.4 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	48.8 mph		
Arithmetic Mean	42.4 mph		
10 mph Pace Speed	37 - 46	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	58%		
Number of Survey Samples	104		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	8		
Annual Collision Rate	1.60	accidents/year	
Collisions per Million Vehicle Miles	0.76		

TRAFFIC FACTORS

2024 Average Daily Traffic	14,439
Number of Lanes	3
Crosswalk	ORANGETHORPE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	WEST SIDE
Sidewalks	WEST SIDE & SMALL SECTION ON EAST SIDE
Driveways	WEST SIDE

ROADWAY FACTORS

Length of Segment	0.40	miles
Width	55-86	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET LINDA VISTA ST

CERTIFICATION DATE 2/15/2024

FROM ROSE DR

TO YORBA LINDA BLVD

SPEED FACTORS

Date of Speed Survey	10/19/2023	Posted Speed Limit	35	mph
Time of Speed Survey	1:14 PM	Speed Justification		
50th Percentile Speed	27.8	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	33.6	mph		
Arithmetic Mean	27.8	mph		
10 mph Pace Speed	23 - 32	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	64%			
Number of Survey Samples	100			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	12	
Annual Collision Rate	2.40	accidents/year
Collisions per Million Vehicle Miles	14.43	

TRAFFIC FACTORS

2024 Average Daily Traffic	1,627
Number of Lanes	2
Crosswalk	ROSE, YORBA LINDA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.28	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	LIVINGSTON AVE	CERTIFICATION DATE	2/15/2024
FROM	CLARK AVE	TO	KRAEMER BLVD

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	25	mph
Time of Speed Survey	10:07 AM	Speed Justification		
50th Percentile Speed	20.9	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	24.9	mph		
Arithmetic Mean	20.9	mph		
10 mph Pace Speed	16 - 25	Recommended Speed Limit	25	mph
Percentage of Vehicles in Pace	88%			
Number of Survey Samples	24			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	1	
Annual Collision Rate	0.20	accidents/year
Collisions per Million Vehicle Miles	1.32	

TRAFFIC FACTORS

2024 Average Daily Traffic	864
Number of Lanes	2
Crosswalk	KRAEMER
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.48	miles
Width	40	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MADISON AVE	CERTIFICATION DATE	2/15/2024
FROM	WEST CITY LIMIT	TO	KRAEMER BLVD

SPEED FACTORS

Date of Speed Survey	10/5/2023	Posted Speed Limit	35 mph
Time of Speed Survey	1:50 PM	Speed Justification	
50th Percentile Speed	34.7 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	38.7 mph		
Arithmetic Mean	34.7 mph		
10 mph Pace Speed	29 - 38	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	77%		
Number of Survey Samples	101		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	5		
Annual Collision Rate	1.00	accidents/year	
Collisions per Million Vehicle Miles	0.67		

TRAFFIC FACTORS

2024 Average Daily Traffic	6,737
Number of Lanes	2
Crosswalk	KRAEMER, BRADFORD, TWILIGHT
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES WITH GAPS
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.61	miles	
Width	62	feet	
Vertical Curve	YES		
Horizontal Curve	NO		
Visibility	FAIR		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MCCORMACK LANE	CERTIFICATION DATE	2/15/2024
FROM	YORBA LINDA BLVD	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	30	mph
Time of Speed Survey	1:56 PM	Speed Justification		
50th Percentile Speed	26.1	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	29.6	mph		
Arithmetic Mean	26.1	mph		
10 mph Pace Speed	23 - 32	Recommended Speed Limit	30	mph
Percentage of Vehicles in Pace	90%			
Number of Survey Samples	102			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	12	
Annual Collision Rate	2.40	accidents/year
Collisions per Million Vehicle Miles	3.87	

TRAFFIC FACTORS

2024 Average Daily Traffic	1,697
Number of Lanes	2
Crosswalk	YORBA LINDA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.20	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET MCCORMACK LANE **CERTIFICATION DATE** 2/15/2024
FROM CITY LIMIT **TO** GOLDEN AVE

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	30	mph
Time of Speed Survey	12:53 PM	Speed Justification		
50th Percentile Speed	29.4	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	33.3	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	29.4	mph	below the 85th percentile speed.	
10 mph Pace Speed	24 - 33	Recommended Speed Limit	30	mph
Percentage of Vehicles in Pace	87%			
Number of Survey Samples	89			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	12	
Annual Collision Rate	2.40	accidents/year
Collisions per Million Vehicle Miles	3.87	

TRAFFIC FACTORS

2024 Average Daily Traffic	781
Number of Lanes	2
Crosswalk	BASTANCHURY, GOLDEN, BERKENSTOCK
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.80	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MELROSE ST	CERTIFICATION DATE	2/15/2024
FROM	SOUTH CITY LIMIT	TO	LA JOLLA ST

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	35 mph
Time of Speed Survey	2:30 PM	Speed Justification	
50th Percentile Speed	33.4 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	37.5 mph		
Arithmetic Mean	33.4 mph		
10 mph Pace Speed	29 - 38	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	81%		
Number of Survey Samples	118		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	45		
Annual Collision Rate	9.00	accidents/year	
Collisions per Million Vehicle Miles	2.11		

TRAFFIC FACTORS

2024 Average Daily Traffic	11,085
Number of Lanes	4 WITH TWLTL
Crosswalk	LA JOLLA
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	EAST SIDE
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.10	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MELROSE ST	CERTIFICATION DATE	2/15/2024
FROM	LA JOLLA ST	TO	ORANGETHORPE AVE

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	35	mph
Time of Speed Survey	3:05 PM	Speed Justification		
50th Percentile Speed	34.8	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	38.9	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	34.8	mph	below the 85th percentile speed.	
10 mph Pace Speed	31 - 40	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	77%			
Number of Survey Samples	115			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	45	
Annual Collision Rate	9.00	accidents/year
Collisions per Million Vehicle Miles	2.11	

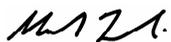
TRAFFIC FACTORS

2024 Average Daily Traffic	13,271
Number of Lanes	4 WITH TWLTL
Crosswalk	LA JOLLA, ORANGETHORPE
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	WEST SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.26	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD, EXCEPT HIDDEN DRIVEWAYS	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	PARK	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MELROSE ST	CERTIFICATION DATE	2/15/2024
FROM	ORANGETHORPE AVE	TO	CROWTHER AVE

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	40	mph
Time of Speed Survey	9:00 AM	Speed Justification		
50th Percentile Speed	35.9	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	40.7	mph		
Arithmetic Mean	35.9	mph		
10 mph Pace Speed	33 - 42	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	71%			
Number of Survey Samples	108			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	45	
Annual Collision Rate	9.00	accidents/year
Collisions per Million Vehicle Miles	2.11	

TRAFFIC FACTORS

2024 Average Daily Traffic	8,636
Number of Lanes	4 WITH TWLTL
Crosswalk	ORANGETHORPE, CROWTHER
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.38	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	WEST SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MELROSE ST	CERTIFICATION DATE	2/15/2024
FROM	CROWTHER AVE	TO	SANTA FE AVE

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	30	mph
Time of Speed Survey	9:30 AM	Speed Justification		
50th Percentile Speed	29.7	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	32.8	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	29.7	mph	below the 85th percentile speed.	
10 mph Pace Speed	26 - 35	Recommended Speed Limit	30	mph
Percentage of Vehicles in Pace	91%			
Number of Survey Samples	107			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	45	
Annual Collision Rate	9.00	accidents/year
Collisions per Million Vehicle Miles	2.11	

TRAFFIC FACTORS

2024 Average Daily Traffic	6,375
Number of Lanes	3
Crosswalk	CROWTHER, SANTA FE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	EAST SIDE
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.14	miles
Width	48	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MIRALOMA AVE	CERTIFICATION DATE	2/15/2024
FROM	VAN BUREN ST	TO	LAKEVIEW AVE

SPEED FACTORS

Date of Speed Survey	10/18/2023	Posted Speed Limit	35	mph
Time of Speed Survey	2:44 PM	Speed Justification		
50th Percentile Speed	30.5	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	35.5	mph		
Arithmetic Mean	30.5	mph		
10 mph Pace Speed	26 - 35	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	73%			
Number of Survey Samples	100			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	9	
Annual Collision Rate	1.80	accidents/year
Collisions per Million Vehicle Miles	2.69	

TRAFFIC FACTORS

2024 Average Daily Traffic	4,702
Number of Lanes	4
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.39	miles
Width	52	feet
Vertical Curve	NO	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	MORSE AVE	CERTIFICATION DATE	2/15/2024
FROM	KRAEMER BLVD	TO	VENICE AVE

SPEED FACTORS

Date of Speed Survey	10/24/2023	Posted Speed Limit	30 mph
Time of Speed Survey	11:00 AM	Speed Justification	
50th Percentile Speed	27.3 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	32.1 mph		
Arithmetic Mean	27.3 mph		
10 mph Pace Speed	23 - 32	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	79%		
Number of Survey Samples	101		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	5		
Annual Collision Rate	1.00	accidents/year	
Collisions per Million Vehicle Miles	3.46		

TRAFFIC FACTORS

2024 Average Daily Traffic	1,256
Number of Lanes	2
Crosswalk	KRAEMER, MID-BLOCK AT MORSE SCHOOL
Pedestrian Traffic	HEAVY
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.63	miles
Width	40	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ORANGETHORPE AVE	CERTIFICATION DATE	2/15/2024
FROM	PLACENTIA AVE	TO	MELROSE ST

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	40 mph
Time of Speed Survey	9:00 AM	Speed Justification	
50th Percentile Speed	36.3 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	42.5 mph		
Arithmetic Mean	36.3 mph		
10 mph Pace Speed	31 - 40	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	56%		
Number of Survey Samples	202		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	172		
Annual Collision Rate	34.40	accidents/year	
Collisions per Million Vehicle Miles	1.67		

TRAFFIC FACTORS

2024 Average Daily Traffic	18,725
Number of Lanes	6
Crosswalk	PLACENTIA, MELROSE, 57 FWYNB RAMPS, 57 FWY SB RAMP
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NORTH SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.50	miles	
Width	94	feet	
Vertical Curve	NO		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ORANGETHORPE AVE	CERTIFICATION DATE	2/15/2024
FROM	MELROSE ST	TO	KRAEMER BLVD

SPEED FACTORS

Date of Speed Survey	9/27/2023	Posted Speed Limit	45	mph
Time of Speed Survey	11:00 AM	Speed Justification	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
50th Percentile Speed	42.3	mph		
85th Percentile Speed	48.2	mph		
Arithmetic Mean	42.3	mph		
10 mph Pace Speed	41 - 50	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	63%			
Number of Survey Samples	209			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	172	
Annual Collision Rate	34.40	accidents/year
Collisions per Million Vehicle Miles	1.67	

TRAFFIC FACTORS

2024 Average Daily Traffic	18,700
Number of Lanes	4 WITH TWLTL
Crosswalk	MELROSE, KRAEMER
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	BOTH SIDES WITH GAPS ON SOUTH SIDE
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.74	miles
Width	102	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET ORANGETHORPE AVE **CERTIFICATION DATE** 2/15/2024
FROM CITY LIMIT **TO** ROSE DR

SPEED FACTORS

Date of Speed Survey	9/27/2023	Posted Speed Limit	45	mph
Time of Speed Survey	11:35 AM	Speed Justification		
50th Percentile Speed	43.9	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	49.1	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	43.9	mph	below the 85th percentile speed.	
10 mph Pace Speed	40 - 49	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	63%			
Number of Survey Samples	204			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	172	
Annual Collision Rate	34.40	accidents/year
Collisions per Million Vehicle Miles	1.67	

TRAFFIC FACTORS

2024 Average Daily Traffic	16,087
Number of Lanes	4 6
Crosswalk	CHAPMAN, ROSE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.40	miles
Width	94	feet
Vertical Curve	NO	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ORANGETHORPE AVE	CERTIFICATION DATE	2/15/2024
FROM	ROSE DR	TO	LAKEVIEW AVE

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	50	mph
Time of Speed Survey	1:23 PM	Speed Justification		
50th Percentile Speed	44.3	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	50.1	mph		
Arithmetic Mean	44.3	mph		
10 mph Pace Speed	39 - 48	Recommended Speed Limit	50	mph
Percentage of Vehicles in Pace	63%			
Number of Survey Samples	103			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	172	
Annual Collision Rate	34.40	accidents/year
Collisions per Million Vehicle Miles	1.67	

TRAFFIC FACTORS

2024 Average Daily Traffic	16,146
Number of Lanes	4 WITH TWLTL
Crosswalk	ROSE, JEFFERSON, VAN BUREN, RICHFIELD, LAKEVIEW
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	NORTH SIDE
Driveways	NORTH SIDE

ROADWAY FACTORS

Length of Segment	1.38	miles
Width	66-82	feet
Vertical Curve	NO	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	NORTH SIDE	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ORCHARD DR	CERTIFICATION DATE	2/15/2024
FROM	VAN BUREN ST	TO	RICHFIELD RD

SPEED FACTORS

Date of Speed Survey	10/17/2023	Posted Speed Limit	30 mph
Time of Speed Survey	3:18 PM	Speed Justification	
50th Percentile Speed	30.4 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	34.8 mph		
Arithmetic Mean	30.4 mph		
10 mph Pace Speed	26 - 35	Recommended Speed Limit	30 mph
Percentage of Vehicles in Pace	79%		
Number of Survey Samples	101		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	9		
Annual Collision Rate	1.80	accidents/year	
Collisions per Million Vehicle Miles	1.85		

TRAFFIC FACTORS

2024 Average Daily Traffic	2,989
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.31	miles	
Width	40	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ORCHARD DR	CERTIFICATION DATE	2/15/2024
FROM	RICHFIELD RD	TO	HIGHLAND AVE

SPEED FACTORS

Date of Speed Survey	10/5/2023	Posted Speed Limit	35 mph
Time of Speed Survey	11:05 AM	Speed Justification	
50th Percentile Speed	33.0 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	37.6 mph		
Arithmetic Mean	33.0 mph		
10 mph Pace Speed	29 - 38	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	76%		
Number of Survey Samples	75		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	9		
Annual Collision Rate	1.80	accidents/year	
Collisions per Million Vehicle Miles	1.85		

TRAFFIC FACTORS

2024 Average Daily Traffic	3,332
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NORTH SIDE
Sidewalks	BOTH SIDES
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.34	miles	
Width	40	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ORCHARD DR	CERTIFICATION DATE	2/15/2024
FROM	HIGHLAND AVE	TO	LAKEVIEW AVE

SPEED FACTORS

Date of Speed Survey	10/17/2023	Posted Speed Limit	35 mph
Time of Speed Survey	12:35 PM	Speed Justification	
50th Percentile Speed	29.4 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	33.0 mph		
Arithmetic Mean	29.4 mph		
10 mph Pace Speed	25 - 34	Recommended Speed Limit	35 mph
Percentage of Vehicles in Pace	87%		
Number of Survey Samples	100		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	9		
Annual Collision Rate	1.80	accidents/year	
Collisions per Million Vehicle Miles	1.85		

TRAFFIC FACTORS

2024 Average Daily Traffic	2,417
Number of Lanes	2
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	SOUTH SIDE

ROADWAY FACTORS

Length of Segment	0.15	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	PALM DR	CERTIFICATION DATE	2/15/2024
FROM	YORBA LINDA BLVD	TO	VALENCIA AVE

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	40 mph
Time of Speed Survey	9:27 AM	Speed Justification	
50th Percentile Speed	37.8 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	42.6 mph		
Arithmetic Mean	37.8 mph		
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	72%		
Number of Survey Samples	104		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	27		
Annual Collision Rate	5.40	accidents/year	
Collisions per Million Vehicle Miles	1.28		

TRAFFIC FACTORS

2024 Average Daily Traffic	8,534
Number of Lanes	2 - 4
Crosswalk	YORBA LINDA, VALENCIA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.44	miles	
Width	64	feet	
Vertical Curve	YES		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	RESIDNETIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	PALM DR	CERTIFICATION DATE	2/15/2024
FROM	VALENCIA AVE	TO	ROSE DR

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	45 mph
Time of Speed Survey	12:28 PM	Speed Justification	
50th Percentile Speed	41.8 mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	47.0 mph		
Arithmetic Mean	41.8 mph		
10 mph Pace Speed	37 - 46	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	72%		
Number of Survey Samples	113		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	27		
Annual Collision Rate	5.40	accidents/year	
Collisions per Million Vehicle Miles	1.28		

TRAFFIC FACTORS

2024 Average Daily Traffic	10,356
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	ROSE, VALENCIA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NORTH SIDE

ROADWAY FACTORS

Length of Segment	0.68	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	PLACENTIA AVE	CERTIFICATION DATE	2/15/2024
FROM	SOUTH CITY LIMIT	TO	CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	40	mph
Time of Speed Survey	12:17 PM	Speed Justification		
50th Percentile Speed	38.6	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	43.6	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	38.6	mph	below the 85th percentile speed.	
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	71%			
Number of Survey Samples	103			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	166	
Annual Collision Rate	33.20	accidents/year
Collisions per Million Vehicle Miles	1.87	

TRAFFIC FACTORS

2024 Average Daily Traffic	15,766
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	RUBY, NUTWOOD, CHAPMAN, CROWTHER, KIMBERLY, ORANGETHORPE, VIA BURTON,
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES WITH GAPS ALONG WEST SIDE
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	1.70	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET PLACENTIA AVE

CERTIFICATION DATE

2/15/2024

FROM CITY LIMIT

TO ROLLING HILLS RD

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	40	mph
Time of Speed Survey	9:42 AM	Speed Justification		
50th Percentile Speed	35.5	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	41.4	mph		
Arithmetic Mean	35.5	mph		
10 mph Pace Speed	30 - 39	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	63%			
Number of Survey Samples	115			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	166	
Annual Collision Rate	33.20	accidents/year
Collisions per Million Vehicle Miles	1.87	

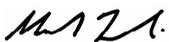
TRAFFIC FACTORS

2024 Average Daily Traffic	18,715
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	PALM, ST. JOHN, LEWIS, BASTANCHURY
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.90	miles
Width	64	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	RICHFIELD RD	CERTIFICATION DATE	2/15/2024
FROM	NORTH CITY LIMIT	TO	SOUTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	10/17/2023	Posted Speed Limit	45 mph
Time of Speed Survey	3:00 PM	Speed Justification	
50th Percentile Speed	43.1 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	48.4 mph		
Arithmetic Mean	43.1 mph		
10 mph Pace Speed	38 - 47	Recommended Speed Limit	45 mph
Percentage of Vehicles in Pace	70%		
Number of Survey Samples	103		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	10		
Annual Collision Rate	2.00	accidents/year	
Collisions per Million Vehicle Miles	0.87		

TRAFFIC FACTORS

2024 Average Daily Traffic	7,846
Number of Lanes	4 WITH TWLTL
Crosswalk	ORANGETHORPE
Pedestrian Traffic	LIGHT
Truck Traffic	MODERATE
On-Street Parking	NONE
Sidewalks	NOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.80	miles	
Width	64	feet	
Vertical Curve	YES		
Horizontal Curve	NO		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	BOTH SIDES		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET ROSE DR **CERTIFICATION DATE** 2/15/2024
FROM ORANGETHORPE AVE **TO** ALTA VISTA ST

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	45	mph
Time of Speed Survey	12:45 PM	Speed Justification		
50th Percentile Speed	44.5	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	49.2	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	44.5	mph	below the 85th percentile speed.	
10 mph Pace Speed	41 - 50	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	70%			
Number of Survey Samples	109			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	88	
Annual Collision Rate	17.60	accidents/year
Collisions per Million Vehicle Miles	0.77	

TRAFFIC FACTORS

2024 Average Daily Traffic	23,957
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	ORANGETHORPE, CASTNER, ALTA VISTA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.52	miles
Width	94	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ROSE DR	CERTIFICATION DATE	2/15/2024
FROM	ALTA VISTA ST	TO	PALM DR

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	45	mph
Time of Speed Survey	1:00 PM	Speed Justification		
50th Percentile Speed	41.2	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	48.0	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	41.2	mph	below the 85th percentile speed.	
10 mph Pace Speed	40 - 49	Recommended Speed Limit	45	mph
Percentage of Vehicles in Pace	63%			
Number of Survey Samples	115			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	88	
Annual Collision Rate	17.60	accidents/year
Collisions per Million Vehicle Miles	0.77	

TRAFFIC FACTORS

2024 Average Daily Traffic	31,583
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	ALTA VISTA, BUENA VISTA, PALM
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	WEST SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.45	miles
Width	84	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	IN RAISED MEDIAN	
Adjacent Land Use	COMMERCIAL	

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2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ROSE DR	CERTIFICATION DATE	2/15/2024
FROM	PALM DR	TO	CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	40 mph
Time of Speed Survey	12:05 PM	Speed Justification	
50th Percentile Speed	38.5 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	43.6 mph		
Arithmetic Mean	38.5 mph		
10 mph Pace Speed	35 - 44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	68%		
Number of Survey Samples	110		

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	88		
Annual Collision Rate	17.60	accidents/year	
Collisions per Million Vehicle Miles	0.77		

TRAFFIC FACTORS

2024 Average Daily Traffic	19,875
Number of Lanes	4 WITH RAISED MEDIAN
Crosswalk	YORBA LINDA, LINDA VISTA, PALM
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.50	miles	
Width	82	feet	
Vertical Curve	NO		
Horizontal Curve	YES		
Visibility	GOOD		
Roadway Conditions	GOOD		
Lighting	IN RAISED MEDIAN		
Adjacent Land Use	COMMERCIAL		

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	ROSE DR	CERTIFICATION DATE	2/15/2024
FROM	CITY LIMIT	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	40	mph
Time of Speed Survey	11:20 AM	Speed Justification	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
50th Percentile Speed	38.3	mph		
85th Percentile Speed	43.2	mph		
Arithmetic Mean	38.3	mph		
10 mph Pace Speed	33 - 42	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	73%			
Number of Survey Samples	106			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	88	
Annual Collision Rate	17.60	accidents/year
Collisions per Million Vehicle Miles	0.77	

TRAFFIC FACTORS

2024 Average Daily Traffic	21,087
Number of Lanes	2 - 4
Crosswalk	IMPERIAL HWY, WABASH
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES WITH GAPS
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.50	miles
Width	74	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	SANTA FE AVE	CERTIFICATION DATE	2/15/2024
FROM	PLACENTIA AVE	TO	MURRAY ST

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	35	mph
Time of Speed Survey	11:45 AM	Speed Justification		
50th Percentile Speed	31.0	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	35.3	mph		
Arithmetic Mean	31.0	mph		
10 mph Pace Speed	25 - 34	Recommended Speed Limit	35	mph
Percentage of Vehicles in Pace	77%			
Number of Survey Samples	103			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	20	
Annual Collision Rate	4.00	accidents/year
Collisions per Million Vehicle Miles	7.00	

TRAFFIC FACTORS

2024 Average Daily Traffic	2,790
Number of Lanes	4
Crosswalk	NONE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.28	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	YES	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

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M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET SANTA FE AVE

CERTIFICATION DATE

2/15/2024

FROM MURRAY ST

TO BRADFORD AVE

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	25	mph
Time of Speed Survey	10:50 AM	Speed Justification		
50th Percentile Speed	24.1	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	27.9	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	24.1	mph	below the 85th percentile speed.	
10 mph Pace Speed	19 - 28	Recommended Speed Limit	25	mph
Percentage of Vehicles in Pace	83%			
Number of Survey Samples	100			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	20	
Annual Collision Rate	4.00	accidents/year
Collisions per Million Vehicle Miles	7.00	

TRAFFIC FACTORS

2024 Average Daily Traffic	2,952
Number of Lanes	2
Crosswalk	MURRAY, WALNUT, MELROSE, MAIN, BRADFORD
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.25	miles
Width	42	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	COMMERCIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET VALENCIA AVE

CERTIFICATION DATE

2/15/2024

FROM PALM DR

TO YORBA LINDA BLVD

SPEED FACTORS

Date of Speed Survey	10/12/2023	Posted Speed Limit	40	mph
Time of Speed Survey	9:55 AM	Speed Justification		
50th Percentile Speed	35.4	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	40.4	mph		
Arithmetic Mean	35.4	mph		
10 mph Pace Speed	31 - 40	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	72%			
Number of Survey Samples	101			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	33	
Annual Collision Rate	6.60	accidents/year
Collisions per Million Vehicle Miles	1.24	

TRAFFIC FACTORS

2024 Average Daily Traffic	6,211
Number of Lanes	4 WITH TWLTL
Crosswalk	YORBA LINDA, PALM
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.24	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	VALENCIA AVE	CERTIFICATION DATE	2/15/2024
FROM	YORBA LINDA BLVD	TO	BASTANCHURY RD

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	40	mph
Time of Speed Survey	9:30 AM	Speed Justification		
50th Percentile Speed	38.7	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	43.4	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	38.7	mph	below the 85th percentile speed.	
10 mph Pace Speed	35 - 44	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	73%			
Number of Survey Samples	105			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	33	
Annual Collision Rate	6.60	accidents/year
Collisions per Million Vehicle Miles	1.24	

TRAFFIC FACTORS

2024 Average Daily Traffic	10,228
Number of Lanes	4 WITH TWLTL
Crosswalk	BASTANCHURY, YORBA LINDA, SHADY LANE
Pedestrian Traffic	MODERATE
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.49	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).



2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	VALENCIA AVE	CERTIFICATION DATE	2/15/2024
FROM	BASTANCHURY RD	TO	GOLDEN AVE

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	40	mph
Time of Speed Survey	2:26 PM	Speed Justification		
50th Percentile Speed	38.3	mph	Per the CA MUTCD Option 2, speed limit is	
85th Percentile Speed	43.8	mph	rounded down to the nearest 5 mph increment	
Arithmetic Mean	38.3	mph	below the 85th percentile speed.	
10 mph Pace Speed	34 - 43	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	63%			
Number of Survey Samples	104			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	33	
Annual Collision Rate	6.60	accidents/year
Collisions per Million Vehicle Miles	1.24	

TRAFFIC FACTORS

2024 Average Daily Traffic	9,229
Number of Lanes	4 WITH TWLTL
Crosswalk	BASTANCHURY, GOLDEN, PURDY
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	EAST SIDE

ROADWAY FACTORS

Length of Segment	0.50	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET	VALENCIA AVE	CERTIFICATION DATE	2/15/2024
FROM	GOLDEN AVE	TO	NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/26/2023	Posted Speed Limit	40 mph
Time of Speed Survey	1:55 PM	Speed Justification	
50th Percentile Speed	38.9 mph	Per the CA MUTCD Option 2, speed limit is rounded down to the nearest 5 mph increment below the 85th percentile speed.	
85th Percentile Speed	43.8 mph		
Arithmetic Mean	38.9 mph		
10 mph Pace Speed	35 - 44	Recommended Speed Limit	40 mph
Percentage of Vehicles in Pace	70%		
Number of Survey Samples	103		

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years	
Total Collisions	33		
Annual Collision Rate	6.60	accidents/year	
Collisions per Million Vehicle Miles	1.24		

TRAFFIC FACTORS

2024 Average Daily Traffic	7,899
Number of Lanes	4 WITH PAINTED MEDIAN
Crosswalk	GOLDEN
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	NONE
Sidewalks	BOTH SIDES
Driveways	NONE

ROADWAY FACTORS

Length of Segment	0.20	miles
Width	64	feet
Vertical Curve	NO	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	EAST SIDE	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

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CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET VAN BUREN ST **CERTIFICATION DATE** 2/15/2024
FROM SOUTH CITY LIMIT **TO** ORANGETHORPE AVE

SPEED FACTORS

Date of Speed Survey	10/18/2023	Posted Speed Limit	40	mph
Time of Speed Survey	3:19 PM	Speed Justification		
50th Percentile Speed	34.9	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	39.2	mph		
Arithmetic Mean	34.9	mph		
10 mph Pace Speed	30 - 39	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	80%			
Number of Survey Samples	105			

COLLISION HISTORY

For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	24	
Annual Collision Rate	4.80	accidents/year
Collisions per Million Vehicle Miles	3.51	

TRAFFIC FACTORS

2024 Average Daily Traffic	4,352
Number of Lanes	2
Crosswalk	ORANGETHORPE
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	BOTH SIDES
Sidewalks	EAST SIDE
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.40	miles
Width	52	feet
Vertical Curve	YES	
Horizontal Curve	NO	
Visibility	GOOD	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

CERTIFICATION: I, Mohammad Qureshi, do hereby certify that this Engineering and Traffic Survey within the City of Placentia was performed under my supervision and is accurate and complete. I am duly registered in the State of California as a Professional Engineer (Traffic).

M. Qureshi

2/15/2024

TR 2542

Mohammad Qureshi

Date

California Registration Number

CITY OF PLACENTIA
ENGINEERING AND TRAFFIC SURVEY

STREET VAN BUREN ST **CERTIFICATION DATE** 2/15/2024
FROM ORANGETHORPE AVE **TO** NORTH CITY LIMIT

SPEED FACTORS

Date of Speed Survey	9/28/2023	Posted Speed Limit	40	mph
Time of Speed Survey	2:42 PM	Speed Justification		
50th Percentile Speed	37.0	mph	Speed limit set at the nearest 5 mph increment of the 85th percentile speed.	
85th Percentile Speed	41.8	mph		
Arithmetic Mean	37.0	mph		
10 mph Pace Speed	31 - 40	Recommended Speed Limit	40	mph
Percentage of Vehicles in Pace	74%			
Number of Survey Samples	110			

COLLISION HISTORY For details of calculations on collision rate, see Table 3-1 of the 2024 Report

Number of Years Studied	5	years
Total Collisions	24	
Annual Collision Rate	4.80	accidents/year
Collisions per Million Vehicle Miles	3.51	

TRAFFIC FACTORS

2024 Average Daily Traffic	4,352
Number of Lanes	2
Crosswalk	ORANGETHORPE, ALTA VISTA
Pedestrian Traffic	LIGHT
Truck Traffic	LIGHT
On-Street Parking	WEST SIDE
Sidewalks	BOTH SIDES
Driveways	BOTH SIDES

ROADWAY FACTORS

Length of Segment	0.46	miles
Width	40	feet
Vertical Curve	YES	
Horizontal Curve	YES	
Visibility	FAIR	
Roadway Conditions	GOOD	
Lighting	BOTH SIDES	
Adjacent Land Use	RESIDNETIAL	

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M. Qureshi

2/15/2024

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