RESOLUTION NO. 2020-54

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MARINA APPROVING THE 2020 ENGINEERING AND TRAFFIC SURVEY WITH PROPOSED SPEED LIMIT REVISIONS, AND; AUTHORIZE A BUDGET APPROPRIATION OF \$45,000 OF GAS TAX/STREET FUND FOR SIGNS AND SUPPLIES, AND; AUTHORIZE THE FINANCE DIRECTOR TO MAKE NECESSARY ACCOUNTING AND BUDGETARY ENTRIES, AND; INTRODUCING ORDINANCE NO. 2020- FOR FIRST READING BY TITLE ONLY, AND WAIVING FURTHER READING, AMENDING SECTION 10.60.010 "SPEED LIMITS ESTABLISHED" OF CHAPTER 10.60 "SPEED LIMITS" OF TITLE 10 "VEHICLES AND TRAFFIC" OF THE MUNICIPAL CODE TO ADOPT PRIMA FACIE SPEED LIMITS PURSUANT TO ENGINEERING AND TRAFFIC SURVEY AND THE CALIFORNIA VEHICLE CODE (CVC)

WHEREAS, California Vehicle Code (CVC) section 40802b requires that Engineering and Traffic Surveys for speed limits must be conducted once every five years by governing municipalities, and;

WHEREAS, in order for the speed limit on a collector or arterial street to be enforceable by the Police Department through the use of radar or other electronic device to measure speed, the speed limit must be set in accordance with an Engineering and Traffic Survey. The California Vehicle Code states that if a posted speed limit is not justified by a traffic and engineering survey, the City may not prove a violation of the posted limit by the use of radar or any other electronic device (CVC 40802), and;

WHEREAS, on March 23, 2018, the City entered into a Service Agreement with the on-call traffic engineering firm TJKM of Pleasanton, California to conduct and draft the 2018 Engineering and Traffic Survey, and;

WHEREAS, on August 7, 2018, the City Traffic Advisory Committee conducted a review of the draft Engineering and Traffic survey and provided comments to TJKM for final consideration by the City Council, and;

WHEREAS, on October 16, 2018, the Engineering and Traffic Survey was presented to the City Council for consideration and approval. The Council provided comments to staff regarding several recommended speed reductions and requested a revision to the Study report, and;

WHEREAS, at the special meeting of April 14, 2020, the City Council requested public comments to be sent to the City for response by the Survey's Traffic Engineer. The deadline for submittal of public comments was April 28, 2020. The comments were collected and included as "Exhibit A", and;

WHEREAS, the setting of speed limits requires a rational and defensible procedure to maintain the confidence of the public and legal systems. Speed limit determinations rely on the premise that a reasonable speed limit is one that conforms to the actual behavior of most drivers; one will be able to select a speed limit that is both reasonable and effective by measuring drivers' speeds, and;

WHEREAS, according to the latest California Manual on Uniform Traffic Control Devices, the posted speed limit shall be established at the nearest 5 mph increment of the 85th percentile speed of free-flowing traffic. Should the 85th percentile need to be rounded up, a rounding down to the lower 5 mph can be applied (CVC 21400). Should the 85th percentile need to be rounded down or not rounded at all (i.e. the 85th percentile is on a 5-mph increment), a 5-mph reduction can be applied. In either case, the conditions and justifications for applying a 5-mph reduction to the 85th percentile speed need to be documented in the Engineering and Traffic Survey and approved by a registered Civil or Traffic Engineer, and;

WHEREAS, the standardized engineering principles that would govern the Engineer's approval of a speed limit reduction of 5 mph from the 85th percentile would be: roadside conditions not readily apparent to the driver, accident records, prevailing speeds, residential density, and pedestrian/bicycle safety, and;

WHEREAS, on **May 15, 2020**, staff received the Traffic Engineer's final revised draft of the 2020 Citywide Engineering and Traffic Survey Report ("**Exhibit B**"), provided by TJKM. The report details the survey of all City arterial and collector streets as defined in the City's General Plan, and;

WHEREAS, after reviewing the submitted public comments, the Traffic Engineer was able to make the engineering findings to justify revising the survey to the following speed limits on these segments: Segment 7 – Reservation Road, Beach Road to Del Monte Boulevard; **30 MPH**, Segment 17 – Crescent Avenue, Quebrada Del Mar to Reservation Road; **25 MPH**, Segment 19 – Cardoza Avenue, Reservation Road to Aaron Way (end); **30 MPH**, Segment 21 – California Avenue, Reservation Road to Carmel Avenue; **35 MPH**, Segment 22 – California Avenue, Carmel Avenue to Reindollar Avenue; **25 MPH**, Segment 40 – 3rd Avenue, Imjin Parkway to 8th Street; **25 MPH**. A summary of the recommended speed limits can be seen in "**Exhibit C**". The recommended speed limits and Survey will be effective for 5 years from the date of adoption, and;

WHEREAS, the City of Marina's Traffic Advisory Committee, consisting of the Fire Chief, Police Chief, Public Works Director, and Community Development Director, concurs with the findings and recommends establishing the speed limits as described above based on the recommendations of the Engineering and Traffic Survey. The adoption of the recommended speed limits will support effective enforcement of these speeds, where not adopting the recommendations may severally limit enforcement and may lead to a greater speed increase on City streets, and;

WHEREAS, the CVC provides that the new speed limit is enforceable when signs are erected giving notice of the new limits. The cost to purchase and install a new speed limit sign is approximately \$250 per location and approximately \$500 per road marking location. The estimated cost for new speed limit signs and road markings is \$45,000.00. Should the City Council approve this request, the City Finance Director will make all necessary accounting and budgetary entries to appropriate funding from Fiscal Year 2019-20, Gas Tax/Street Funds for signs & supplies, and;

WHEREAS, the adoption of the ordinance shall come back to the City Council at the next schedule meeting. Adoption of the Resolution and ordinance will allow for effective speed enforcement. This request is submitted for City Council consideration and possible action.

NOW THEREFORE, BE IT RESOLVED that the City Council of the City of Marina does hereby:

- 1. Approve the 2020 Engineering and Traffic Survey with proposed speed limit revisions, and;
- 2. Authorize a budget appropriation of \$45,000 of Gas Tax/Street Fund for signs and supplies, and;
- 3. Authorize the Finance Director to make necessary accounting and budgetary entries, and;
- 4. Introducing Ordinance No. 2020-, for first reading by title only and waive further reading, amending Section 10.60.010 "Speed Limits Established" of Chapter 10.60 "Speed Limits" of Title 10 "Vehicles and Traffic" to adopt prima facie speed limits pursuant to an engineering and traffic survey and the California Vehicle Code (CVC).

PASSED AND ADOPTED by the City Council of the City of Marina at a regular meeting duly held on the 19th day of May 2020 by the following vote:

AYES: COUNCIL MEMBERS: Berkley, Urrutia, O'Connell, Morton, Delgado

NOES: COUNCIL MEMBERS: None ABSENT: COUNCIL MEMBERS: None ABSTAIN: COUNCIL MEMBERS: None

ATTEST:	Bruce C. Delgado, Mayor
Anita Sharp, Deputy City Clerk	

ORDINANCE NO. 2020-

ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MARINA AMENDING SECTION 10.60.010 "SPEED LIMITS ESTABLISHED" OF CHAPTER 10.60 "SPEED LIMITS" OF TITLE 10 "VEHICLES AND TRAFFIC," OF THE MUNICIPAL CODE TO ADOPT *PRIMA FACIE* SPEED LIMITS PURSUANT TO AN ENGINEERING AND TRAFFIC SURVEY AND THE CALIFORNIA VEHICLE CODE

WHEREAS, California Vehicle Code Sections 22357 and 22358 provide that local entities may declare *prima facie* speed limits of more than 25 miles per hour on City streets on the basis of an engineering and traffic survey; and

WHEREAS, THE California Vehicles Code Section 627 defines an engineering and traffic survey to include 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; and

WHEREAS, the City of Marina has completed an engineering and traffic survey pursuant to California Vehicle Code Sections 22357 and 22358.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MARINA DOES HEREBY ORDAIN AS FOLLOWS:

<u>SECTION 1</u>. The City of Marina is authorized to use radar enforcement of speed limits on local streets pursuant to the *prima facie* speed limits specified in the California Vehicle Code and on other streets if the speed limits established by the City are consistent with the results of an engineering and traffic survey conducted according to the standards set forth in the California Vehicle Code.

<u>SECTION 2</u>. The City Council of the City of Marina finds and declares that an Engineering and Traffic Survey has been completed in full compliance with the requirements of the California Vehicle Code.

SECTION 3 Based on the findings and recommendations of the Engineering and Traffic Survey, all Subsections of Section 10.60.010 entitled "Speed Limits Established" of Title 10, Chapter 10.60, of the Marina Municipal Code are amended, repealing in their entirety and replacing Subsections A through G and adding Subsections H through Y; to read in their entirety as follows:

"A. Reservation Road, as follows:

- 1. Thirty-five miles per hour from Dunes Drive to Beach Road;
- 2. Thirty miles per hours from Beach Road to Del Monte Boulevard;
- 3. Thirty-five miles per hour from Del Monte Boulevard to Crescent Avenue;
- 4. Forty miles per hour from Crescent Avenue to California Avenue;
- 5. Forty-five miles per hour from California Avenue to Salinas Avenue;
- 6. Fifty-five miles per hour from Salinas Avenue to Imjin Parkway;
- 7. Fifty-five miles per hour from Imjin Parkway to Blanco Road.

- B. Del Monte Boulevard, as follows:
 - 1. Forty miles per hour from six hundred feet south of Reindollar Avenue to Marina Greens Drive.
- C. Cardoza Avenue, as follows:
 - 1. Thirty miles per hour from Reservation Road to the end thereof, which is approximately six hundred feet north of Lakewood Drive.
- D. Carmel Avenue, as follows:
 - 1. Twenty-five miles per hour from Del Monte Boulevard to Salinas Avenue;
 - 2. The prima facie speed limit on Carmel Avenue from approximately 300 feet west of Everett Drive to Bostick Avenue shall be fifteen miles per hour when children are present;
- E. California Avenue, as follows:
 - 1. Thirty-five miles per hour from Reservation Road to Carmel Avenue;
 - 2. Twenty-five miles per hour from Carmel Avenue to Reindollar Avenue;
 - 3. Forty miles per hour from Reindollar Avenue to Imjin Parkway;
 - 4. Thirty miles per hour from Imjin Parkway to 5th Avenue.
- F. Crescent Avenue, as follows:
 - 1. Thirty miles per hour from Carmel Avenue to Reservation Road;
 - 2. Twenty-five per hour from Reservation Road to the end thereof, which is approximately two hundred fifty feet north of Quebrada Del Mar.
- G. Beach Road, as follows:
 - 1. Thirty-five miles per hour from Reservation Road to Del Monte Boulevard;
 - 2. Thirty miles per hour from Del Monte Boulevard to De Forest Road;
 - 3. The prima facie speed limit from Begonia Circle to Villa Circle shall be fifteen miles per hour when children are present.
- H. 2nd Avenue, as follows:
 - 1. Forty-five miles per hour from Divarty Street to 8th Street;
 - 2. Thirty-five miles per hour from 8th Street to Imjin Parkway.
- I. 3rd Avenue, as follows:
 - 1. Twenty-five miles per hour from 8th Street to Imjin Parkway.
- J. 8th Street, as follows:
 - 1. Twenty-five miles per hour from 2nd Avenue to 3rd Avenue;
 - 2. Forty miles per hour from 5th Avenue/California Avenue to Inter-Garrison Road.
- K. 9th Street, as follows:
 - 1. Thirty miles per hour from 1st Avenue to 2nd Avenue.
- L. De Forest Road, as follows:
 - 1. Thirty miles per hour from Beach Road to Reservation Road.

- M. Reindollar Avenue, as follows:
 - 1. Twenty-five miles per hour from Del Monte Boulevard to California Avenue;
 - 2. Thirty miles per hour from California Avenue to Carmel Avenue.
- N. Lake Drive, as follows:
 - 1. Twenty-five miles per hour from Palm Avenue to Reservation Road.
- O. Palm Avenue, as follows:
 - 1. Twenty-five miles per hour from Lake Drive to Del Monte Boulevard.
- P. Salinas Avenue, as follows:
 - 1. Twenty-five miles per hour from Carmel Avenue to Reservation Road.
- Q. Paul Davis Drive, as follows:
 - 1. Thirty miles per hour from Healy Avenue to Marina Greens Drive.
- R. Seacrest Avenue, as follows:
 - 1. Thirty miles per hour from Carmel Avenue to Reservation Road.
- S. Sunset Avenue, as follows:
 - 1. Twenty-five miles per hour from Reindollar Avenue to Carmel Avenue.
- T. Vaughan Avenue, as follows:
 - 1. Twenty-five miles per hour from Reindollar Avenue to Carmel Avenue.
- U. Crescent Street, as follows:
 - 1. Twenty-five miles per hour from Reindollar Avenue to Patton Parkway.
- V. Patton Parkway, as follows:
 - 1. The prima facie speed limit from End (Marina High School) to Crescent Street shall be twenty-five miles per hour when children are present;
 - 2. Forty miles per hour from Crescent Street to California Avenue.
- W. Preston Drive, as follows:
 - 1. Thirty miles per hour from Abrams Drive to Imjin Parkway.
- X. Abrams Drive, as follows:
 - 1. Thirty miles per hour from Preston Drive to Imjin Parkway.
- Y. Imjin Parkway, as follows:
 - 1. Fifty miles per hour from State Route 1 to California Avenue;
 - 2. Fifty miles per hour from California Avenue to Reservation Road."

<u>SECTION 4</u>. The *prima facie* speed limit for each portion of Reservation Road, Del Monte Boulevard, Cardoza Avenue, Carmel Avenue, California Avenue, Crescent Avenue, Beach Road, 2nd Avenue, 3rd Avenue, 8th Street, 9th Street, De Forest Road, Reindollar Avenue, Lake Drive, Palm Avenue, Salinas Avenue, Paul Davis Drive, Seacrest Avenue, Sunset Avenue, Vaughan Avenue, Crescent Street, Patton Parkway, Preston Drive, Abrams Drive, and Imjin Parkway set forth in Section 3 hereof, shall be as set forth therein when signs are erected giving notice thereof.

Ordinance No. 2020-Page Four

<u>SECTION 5</u>. Any provision of the Marina Municipal Code or appendices thereto inconsistent with the provisions of this Ordinance, to the extent of such inconsistencies and no further, is hereby repealed or modified to the extent necessary to affect the provisions of this Ordinance.

<u>SECTION 6</u>. The City Council hereby declares it would have passed this ordinance sentence by sentence, paragraph by paragraph, and section by section, and does hereby declare that the provisions of this ordinance are severable and, if for any reason any sentence, paragraph or section of this ordinance shall be held invalid, such decision shall not affect the validity of the remaining parts of this ordinance.

<u>SECTION 7.</u> This ordinance shall take effect and be in force thirty (30) days from and after its final passage.

<u>SECTION 8.</u> Within fifteen (15) days after the passage of this ordinance, the City Clerk shall cause it to be posted in the three (3) public places designated by resolution of the City Council.

The foregoing ordinance was introduced at a regular meeting of the City Council of the City of Marina duly held on the 19th day of May 2020, and was passed and adopted at a regular meeting duly held on the 2nd day of June 2020, by the following vote:

AYES: COUNCIL MEMBERS:
NOES: COUNCIL MEMBERS:
ABSENT: COUNCIL MEMBERS:
ABSTAIN: COUNCIL MEMBERS:

Bruce C. Delgado, Mayor
ATTEST:

Anita Sharp, Deputy City Clerk

Segment/ Streets	Existing	85th Percentile	Name/ Email	Comments	Action/Speed Limit
General comment for the city			John DiCarlo <jdicarlo007@gmail.com> DEBORAH WALDRON <dewal@comcast.net> Rosemary McKenney <cit20rose@yahoo.com> Elizabeth Fosler-Brazil <lisa@fosler.com></lisa@fosler.com></cit20rose@yahoo.com></dewal@comcast.net></jdicarlo007@gmail.com>	The proposed speed limit increases were made by a professional who is trained in this field and used the 85 percentile as a basis for the increases, along with other authorized factors. There are residents who want the city to ignore the professional's proposal. Much of this is based on emotions and not sound logic. Many believe that everyone speeds on "their" street. They might see a car going at excessive speed and then think that everyone is speeding. This is a well known fallacy. Speeding is relative. 85 percentage is a significant number to help determine the proper speed, along with other factors that can be taken into consideration. I'm sure that the traffic engineer has the training and experience to have made his decisions on appropriate speed limits. Dislike the thought of any increase in speed limits, especially in what's supposed to be a residential area. I don't want to see a child die, because we raised the speed limit to use our police's radars. I am writing to discourage increasing the speed limits around Marina, in general. As a runner / walker around town and a resident along Reindollar I can tell you that people already drive too fast on Marina city streets.	
Intersection of Abdy and			Erik Mayer	Public safety, People turning left towards Denny's from Abdy Way cannot see far enough up Cardoza Ave	
Cardoza			<pre>erikmayer@earthlink.net></pre>	to avoid speeders.	
Segment #1: Imjin Parkway, State Route 1 to California Avenue	45	53	Bruce Delgado Roman Perry <nancy.romanten@yahoo.com> Elizabeth Latona <elatona@me.com> Katelyn Jackson <kate.jaxon@gmail.com> Liesbeth Visscher eliesbethvisscher@yahoo.com></kate.jaxon@gmail.com></elatona@me.com></nancy.romanten@yahoo.com>	Reduce to min. With the roads poor design a contributing factor in many of the accidents and deaths on this short roadway, raising the speed limit, a segment of which should be a School Zone, would only bring an increase in these unnecessary events. Already seeing a lot of accidents raising the speed limit here will endanger foot traffic, especially after the new development is completed. Where is the traffic deterrent? I have rarely seen a police vehicle on this road only warning of speed, but no actual police presence. The only option we are given is to raise the speed limit which is already too high. The operating speed of vehicles can only be enforced by radar? Really? Please provide other solutions. That is not my job. How is community input being taken into consideration? "Two-lane divided roadway with raised medians, bike lanes, and a parallel bike path on the south side. Sidewalks are present on the north side and on the south side south of 2nd Street. Signalized intersections have turn pockets and crosswalks. The segment features vertical curves near California Avenue." The unprotected intersection with 3rd Avenue is not mentioned. Because of the accident rate (that is 3.6 times higher than the states average), I can not suggest the speed limit to be raised to 50MPH as the traffic engineer suggest.	No Change / 50
			Dana Cleary <dcleary@chispahousing.org></dcleary@chispahousing.org>	A gentleman who was killed last year was crossing Imjin Parkway was run over by a driver who just didn't notice that particular invisible crosswalk, probably because the driver was speeding. This street is dangerous now and will become more dangerous as the area north of Imjin is redeveloped with the hotel. There surely are things we can point out here to justify having the traffic engineering reconsider and estimate the speed downward.	
Segment #2: Imjin Parkway, California Avenue to	45	54	43	"Two-lane roadway with raised medians west of Imjin Road and double yellow center striping between California Ave. and Reservation Rd. Bike lanes are present along the segment. Signalized intersections have turn pockets and crosswalks. The segment features vertical and horizontal curves east of California Ave." The unprotected intersection with Abrams Drive (at Sea Haven) is not mentioned. Reduced to min. With the roads poor design a contributing factor in many of the accidents and deaths on this short roadway, raising the speed limit, a segment of which should be a School Zone, would only bring	No Change / 50
Reservation Road			Bruce Delgado Eliabeth Billingsley <ebillingsley@redshift.com> Peter Le</ebillingsley@redshift.com>	an increase in these unnecessary events. Vote no on raising the speed it is already hard to get out of California Ave. Because of the accident rate (that is 2.7 times higher than the states average), I can not suggest the speed limit to be raised to 50MPH as the traffic engineer suggest.	
Segment #3: Del Monte Blvd, SR1/Reindollar Avenue	35	43	Roman Perry <nancy.romanten@yahoo.com> Bruce Delgado</nancy.romanten@yahoo.com>	3 gas stations along this road as well as several businesses an increasing the speed here could result in more rear-end accidents. Reduced to min.	No Change / 40
to Reservation Road			Katelyn Jackson <kate.jaxon@gmail.com></kate.jaxon@gmail.com>	How is community input being taken into consideration?	ָם ס

Segment/ Streets	Existing	85th Percentile	Name/ Email	Comments	Action/Speed Limit
Segment #4: Del Monte Boulevard, Reservation Road to Beach Road	40	41	Bruce Delgado	Please consider dropping to 35mph? Difficult to exit parking lots of County Courthouse on weekdays and Vince DiMaggio Park during weekly public gatherings. Difficult to judge the speed of drivers coming up and down the hill here. Many pedestrians cross to go to the library park (Locke Paddon Park) across the street with no mid-block crosswalk.	No Change / 40
Segment #5:Del Monte Boulevard, Beach Road to Marina Greens Drive	40	45	Bruce Delgado	Reduced to min. Unsafe for residents exiting apartment complexes and residential driveways on DMB.	No Change / 40
Segment #6: Reservation Road, Dunes Drive to Beach Road	35	36	Bruce Delgado	No change.	No Change / 35
			Bruce Delgado	Please use the 85th round down to 30mph. Peds complain unsafe to cross at roundabouts. Many ped tourists and nearby unfamiliar with the area and nearby residents have difficulty safely crossing the street to go to the library and Locke Paddon Park.	
Segment #7: Reservation Road, Beach Road to Del Monte Boulevard	35	31	Peter Le	The accident rate for this road segment is 2.7 times the state average accident rate. Therefore his recommendations fail to comply with the request of the California vehicle code and Caltrans traffic manual the speed limit should be set at 30 MPH.	Reduce / 30
			Brian McCarthy marina@yahoo.com>	Why was the study location chosen at a spot that doesn't reflect the unique road characteristics of this stretch, and instead the spot where drivers are likely to be going the fastest without significant change in Horizontal and Vertical curves/grade. Why do some traffic circles have yellow speed limit "advisory" signs while some do not?	
Segment #8a: Reservation Road, Del Monte Boulevard to Crescent Avenue	35	36	Bruce Delgado	Consider reducing to 30mph which is a comfortable speed for short distances between the 5 signal lights (Vista Del Camino, Seacrest, McDonald's, DeForest, and Crescent) within 1/2 mile. Unsafe for bicyclists in the bike lane with so many distractions for drivers (stores, traffic lights, inclines). Cyclists at mercy of drivers paying attention so slower speed would make it safer for more bikers to feel safe and use this road.	No Change, 35
Segment #8b: Reservation Road, Crescent Avenue to California Avenue	40	47	Bruce Delgado	Reduced to min. Thank you.	No Change / 40
Segment #9: Reservation Road, California Avenue to Salinas Avenue	45	51	Bruce Delgado	Reduced to min. Thank you.	No Change / 45
Segment #10: Reservation Road, Salinas Avenue to Imjin Parkway	55	50	Bruce Delgado	No change recommended but please consider reducing to 50mph 85th percentile. Drivers westbound need more time to adjust to safely lower mph for downtown conditions which begin at Salinas Ave. We shouldn't be increasing speed limits above what people are now driving.	No Change / 55
Segment #11: Reservation Road, Imjin Parkway to Blanco Road	55	59	Bruce Delgado	Reduced to min. Thank you.	No Change / 55
Segment #12a: 8th Street, 2nd Avenue to 3rd Avenue	35	24	Bruce Delgado	Reduced to min. Thank you.	No Change / 25
Segment #12b: 8th Street, 5th Avenue to Inter- Garrison Road	N/A	40	Bruce Delgado	ok thank you.	No Change / 40
Segment #13: 9th Street, 1st Avenue to 2nd Avenue	N/A	31	Bruce Delgado Elizabeth Plante <info@montereybaymoves.com></info@montereybaymoves.com>	ok thank you. Cars speed on 9th Street right after turning on 3rd to get to 2nd avenue and avoid the Imjin/2nd avenue intersection the same in the opposite direction. It makes absolutely no sense to make a residential street even more dangerous by allowing drivers to commute through a neighborhood at high speed. Too many do not respect the existing speed limit and put all of us at risk.	No Change / 30

Segment/ Streets	Existing	85th Percentile	Name/ Email	Comments	Action/Speed Limit
Segment #14a: 2nd Avenue, Divarty Street to 8th Street	35	35 44			

Segment/ Streets	Existing	85th Percentile	Name/ Email	Comments	Action/Speed Limit
			Roman Perry <nancy.romanten@yahoo.com></nancy.romanten@yahoo.com>	Should be reduced to 25 MPH because it is a residential area.	
Segment #19 Cardoza Avenue, from Reservation Road to Aaron Way (End)	30	35	Bruce Delgado	Please maintain at 30mph. Only a 2-way stop sign at Abdy. Poor line of sight dangerous conditions. This is notoriously unsafe intersection for many years due to high downhill speed, funky-crooked roadway and only a 2-way stop. Is 2020 report wrong about all-way stop sign? "Crosswalks are provided at the signalized intersection at Reservation Road and the all-way stop controlled intersection at Abdy Way. The segment features slight horizontal and vertical curves."	Reduce / 30
			Bruce Delgado	Due to special conditions, proposed as low as legally possible for enforcement	
Segment # 20 Beach Road, Del Monte Boulevard to De Forest Road	30	35	Peter Le	The traffic engineer recommended speed of 30 miles per hour not 35 miles per hour over the speed The survey was not done at a location that is represented of this road segment that results in a higher 85th percentile speed limit of 35 miles per hour. Since a lot of school children also walk along this road segment there are missing sidewalks on the south side of the street, I recommend the speed limit from Del Monte Boulevard to Michael Drive should be 15 miles per hour when children are present.	No Change / 30
			Elisabeth Billingsley	The speed limit should be reduced or NO CARS AND TRUCKS parked on that side of the street. If	
		5 40	<pre><ebillingsley@redshift.com> Roman Perry <nancy.romanten@yahoo.com></nancy.romanten@yahoo.com></ebillingsley@redshift.com></pre>	anything it should be reduced 5 MPH not increased 5MPH. (Recommends 30 mph) 35mph should be fast enough for this residential street. When residence have to slow down to get into their driveway it could end up causing a rear-end collision. This is hampered with bicycle lanes on both sides as well. There are also special school crosswalks. People already speed on this street.	
Segment #21 California Avenue, from Reservation	35		Bruce Delgado	Please consider keeping at 35mph. EB-unsafe for residents exiting driveways from side streets onto this segment Calif. Ave. and also to be more consistent with Calif. Ave. proposed 30mph speed limit from Carmel Ave. to Reindollar Ave.	
Road to Carmel Avenue			Crystal Pendleton	This is a part of a residential area/school zone, and the speed should be no higher than 25 MPH. The accident rates are more than double (2.75 and 2.87) the state average accident rate, likely due to the lack of mitigation for special conditions on California Ave, such as curves and school zones. These road intersections are on a grid, which is straight with not many visual obstacles, making it easy to blow through a stop sign and go to fast on California Street and on Carmel Avenue. We don't feel safe having our kids or pets in the front yard without type supervision and it makes me	Reduce / 35
			Cecelia Azhderian <ceceliaazhderian@gmail.com></ceceliaazhderian@gmail.com>	unpleasant to spend much time in the front yard frankly. I know many people feel the same way please do not raise the speed limit here.	
			Bruce Delgado	Please reduce to 25 since the 85th percentile is 26. This segment leads to the intersection of Calif. Ave./Reindollar Ave. which is a 4-way stop and busy during the day with poor line of sight due to terrain and unlit conditions at night prompting many complaints.	
			Peter Le	The traffic engineer recommends increasing to 30 miles per hour his justification was to keep the speed the same as other Road segments on both sides of these road segments. The accident rates for the road segment are 2 times higher average accident rates. Therefore, this recommendation fails to comply with the requirements of the California vehicle code and Caltrans traffic manual. The speed limit should be set at 25 miles per hour.	
Segment #22: California Avenue, Carmel Avenue to Reindollar Avenue	30	26	Crystal Pendleton	This is a part of a residential area/school zone, and the speed should be no higher than 25 MPH. The accident rates are more than double (2.75 and 2.87) the state average accident rate, likely due to the lack of mitigation for special conditions on California Ave, such as curves and school zones.	Reduce / 25
			Cecelia Azhderian <ceceliaazhderian@gmail.com></ceceliaazhderian@gmail.com>	I know many people feel the same way please do not raise the speed limit here. These road intersections are on a grid, which is straight with not many visual obstacles, making it easy to blow through a stop sign and go to fast on California Street and on Carmel Avenue. We don't feel safe having our kids or pets in the front yard without type supervision and it makes me unpleasant to spend much time in the front yard frankly. The traffic engineer recommended an increase to 30 miles per hour. His justification was to keep the speed	
			Sarah Lee <saralee778@yahoo.com< td=""><td>the traffic engineer recommended an increase to 30 miles per nour. His justification was to keep the speed the same as other Road segments in both sides of this road segment. The traffic engineer also felt analyzed existing horizontal and vertical curves that were designed for Speed of 15 and 25 miles an hour. His recommendation fails to comply with the requirements of the California vehicle code and contrast traffic manual.</td><td></td></saralee778@yahoo.com<>	the traffic engineer recommended an increase to 30 miles per nour. His justification was to keep the speed the same as other Road segments in both sides of this road segment. The traffic engineer also felt analyzed existing horizontal and vertical curves that were designed for Speed of 15 and 25 miles an hour. His recommendation fails to comply with the requirements of the California vehicle code and contrast traffic manual.	

Segment/ Streets	Existing	85th Percentile	Name/ Email	Comments	Action/Speed Limit
Segment #23 California Avenue from Reindollar Avenue to Imjin Parkway	35	44	Roman Perry <nancy.romanten@yahoo.com> Liesbeth Visscher liesbethvisscher@yahoo.com> Bruce Delgado Crystal Pendleton</nancy.romanten@yahoo.com>	It is a dangerous stretch of road for pedestrians and cyclist. The bicycle lane heading north ends with no place to go but into the traffic lane! Cars already speed along this stretch. Do not raise the speed. Bike lanes are missing on both sides of the roadway, near the intersection with Patton Parkway, The unprotected intersection with Marina Heights Drive as well. Based on the May 2018 survey Marina Heights Drive would have been opened therefore it must have had considerably lesstraffic than today. Traffic on this road soon will increase significantly when more homes at Sea Haven have been constructed. Reduced to min. Thank you. Unsafe to cross for high school students living east of Calif. Ave. and to/from school. What is wisdom of installing a mid-block crosswalk? This is a part of a residential area/school zone, and the speed should be no higher than 25 MPH	No Change / 40
Segment #31: Patton Parkway, from Marina High School to California Avenue	25	45	Bruce Delgado Roman Perry <nancy.romanten@yahoo.com> Elizabeth Latona <elatona@me.com> Araceli Gutierrez <agutierrez@mpusd.k12.ca.us> Kathy Biala Dana Cleary <dcleary@chispahousing.org> Katelyn Jackson <kate.jaxon@gmail.com></kate.jaxon@gmail.com></dcleary@chispahousing.org></agutierrez@mpusd.k12.ca.us></elatona@me.com></nancy.romanten@yahoo.com>	Please consider 15-25mph zone on Patton Parkway between Crescent St. to Marina High School. This is a narrow road less than an 1/8 of a mile long up a hill with lots of school-related traffic. 40 mph would be too unsafe as posted speed. Can we establish School Zone restrictions? Suggest the maximum speed on this street to be 35mph with a caution sign indicating curves ahead. The reason for increasing the speed on Patton given is that is the speed in the "norm" and my reply to that is why has the city allowed that to become the norm? You are putting the children in danger if you Increase the speed limit here. Please do not raise the speed limit. The neighborhood along with the general manager and police chief, have tried to make it safer for everyone in this part of town, and raising the speed limit will only contradict the work we have done to make these streets safer. I would like to find a way to make that street a school zone as the city of Salinas did on Alisal street in front of Hartnell college How is community input being taken into consideration?	No Change / 40
Segment # 34 Seacrest Avenue, Carmel Avenue to Reservation Road	N/A	33	Peter Le	The traffic engineer did not recognize numerous parts of both sides of the streets on the southern side segment and frequent left turns into and out of shops on both sides of the street on the Northern segment the speed limit should be set at 25 miles per hour.	No Change / 30
Segment #35: Sunset Avenue, Reindollar Avenue to Carmel Avenue	N/A	30	Bruce Delgado	Reduced to min. Thank you. Survey report comments: "The high collision rate, residential driveway density, and high pedestrian volumes (mostly children) indicate that a higher speed limit may be unsafe, therefore, a permitted 5 mph reduction was applied to the 85th percentile speed."	No Change / 30
Segment #39: Preston Drive, Abrams Drive to Imjin Parkway	25	34	Bruce Delgado Bruce Delgado Bruce Delgado	Reduced to min. "Preston Dr. is narrower than most other streets. Raising the speed even 5 mph is not good." Reduced to min. "The segment features multiple horizontal and vertical curves."" Reduced to min. "The high collision rate and lack of any marked pedestrian crossings indicate that a further increase may be unsafe, therefore, a permitted 5 mph reduction was applied to the 85th percentile speed."	No Change / 30

Segment/ Streets	Existing	85th Percentile	Name/ Email	Comments	Action/Speed Limit
			Liesbeth Visscher liesbethvisscher@yahoo.com>	This road has significantly changed since the survey in May 2018. Homes facing this road have been constructed. Parking now is allowed at almost the entire stretch of this road. Do not raise the speed limit. Please keep at 25mph. Many more homes built, congestion has increased, cycling has increased, poor peripheral vision due to many more parked cars since 2018 survey. New world here since then. Many	
			Bruce Delgado Victor Lopez <victorlopezdds@gmail.com></victorlopezdds@gmail.com>	resident comments on this same theme. Increasing the speed limit on 3rd avenue is both unsafe and impractical	
			carolinesun@yahoo.com Kellee Noonan	Increasing the speed limit on 3rd avenue is both unsafe and impractical Raising the speed will endanger pedestrians, including me when I walk to the shopping centers nearby or	
			<pre><kelleefbc@gmail.com></kelleefbc@gmail.com></pre>	around the neighborhood.	
			Douglas Lee David kent	Raising the speed will endanger pedestrians, including me when I walk to the shopping centers nearby or around the neighborhood.	-
			<david@carmelrealtycompany.com></david@carmelrealtycompany.com>	Please consider retaining the existing 25MPH limit in the interest of public safety.	
			Steve Barnett <steve_barnett55@att.net></steve_barnett55@att.net>	This is a reckless proposal that will only be detrimental and hazardous for this neighborhood.	
			Liz Barnett Shena Rivera	This is a reckless proposal that will only be detrimental and hazardous for this neighborhood. Increasing the speed limit on 3rd avenue is not a wise choice and yields no benefit instead increases the	
			<pre><shenarivera@gmail.com></shenarivera@gmail.com></pre>	chances of collision and poses a safety risk for our residents.	
			Cristina Rivera Mike Kennedy	Unsafe and Impractical.	
			<mgk333@sbcglobal.net> Mark K.R. Simmons</mgk333@sbcglobal.net>	An increase would not align with safety nor common sense.	
			<msimmons@fujitsu.com> Hans Ongchua</msimmons@fujitsu.com>	The higher speed limit will incite drivers to ignore the stop signs more than they already do.	
Segment #40: 3rd Avenue, Imjin Parkway to 8th Street	25	31	<pre><guitarvlogger@gmail.com> Judy Lindblom</guitarvlogger@gmail.com></pre>	Unsafe and Impractical.	Reduce / 25
			<pre><judylindblom@gmail.com> Amber Edwards</judylindblom@gmail.com></pre>	The speed limit is already too high do not raise it.	
			<amberaddavis@gmail.com></amberaddavis@gmail.com>	The increase in speed limit is not supported by The Dunes community.	
			Marcus Edwards Hope Rhodes	The increase in speed limit is not supported by The Dunes community.	
			<hopesbest@gmail.com> Royce Foster</hopesbest@gmail.com>	My concern is for children, adults, and animals getting hit by traffic with the increase of speed.	
			<pre><rdfsearose@comcast.net></rdfsearose@comcast.net></pre> Dave Capece	The increase in speed limit is not supported by The Dunes community.	
			<pre><dcapece743@gmail.com> Jeffrey Crosbie <jeffrey.rayan.crosbie@gmail.com< pre=""></jeffrey.rayan.crosbie@gmail.com<></dcapece743@gmail.com></pre>	The speed limit is already too high do not raise it. I suggest 20 MPH not 30 MPH. I am asking you to vote yes on raising the speed limit.	
			Cyndi Perry <cynper@sbcglobal.net></cynper@sbcglobal.net>	Unsafe and Impractical.	
			Rich Andrews <raandrews79@gmail.com></raandrews79@gmail.com>	Unsafe and Impractical.	
			Jelena Evans <evansjelena@gmail.com></evansjelena@gmail.com>	Please drop the idea of speed increases in residential neighborhood of the Dunes!!!	
			kat Deering <katdeering1960@gmail.com></katdeering1960@gmail.com>	Do not make any changes because the city has not given the people enough time to give their input to the changes throughout the city.	
			Christine Le <ttshwealth@gmail.com> Margo Hohulin</ttshwealth@gmail.com>	Unsafe and Impractical. Do not make any changes because the city has not given the people enough time to give their input to the	
				changes throughout the city.	
			<pre>Andrea Ferreria <andreaferreria@yahoo.com> John Hohulin</andreaferreria@yahoo.com></pre>	Do not make any changes because the city has not given the people enough time to give their input to the changes throughout the city.	
			<pre><farallonhr@yahoo.com></farallonhr@yahoo.com></pre>	Whatever individual conceived of this has clearly lost their mind. Vote no on this!!!	

Engineering & Traffic Survey



City of Marina, California

May 15, 2020





This Citywide Engineering and Traffic Survey has been prepared under the direction of a licensed Civil Engineer. The licensed Civil Engineer attests to the technical information contained therein, and has judged the qualifications of any technical specialists providing engineering data, which recommendations, conclusions and decisions are based. These surveys conform to Sections 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommend speed limit appropriate to facilitate the safe and orderly movement of traffic.

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TABLE OF CONTENTS

1.0 Introduction	1
1.1 Relevant California Vehicle Code Sections	5
2.0 Data Collection & Analysis	7
2.1 Radar Speed Surveys & Analysis	7
2.2 Average Daily Traffic (ADT) Counts	8
2.3 Field Observations	8
2.4 Traffic Collision Data	14
3.0 Speed Limit Recommendations	19
LIST OF TABLES	
Table 1: Survey Segments	
Table 2: Speed Survey Summary	9
Table 3: Daily Traffic Counts Summary	11
Table 4: Collision History Summary (Jan. 2013 – Dec. 2017)	15
Table 5: Collision Rate Summary	17
Table 6: Recommended Speed Limits Summary	23
LIST OF FIGURES	
Figure 1: Existing Speed Limits	4
Figure 2: Average Daily Traffic Volumes	13
Figure 3: Segments with Recommended Speed Limit Changes	25
Figure 4: Recommended Speed Limits	
Appendices	

Appendix A – Recommended Speed Limit Certifications

Appendix B – Speed Survey Data Collection Forms

Appendix C – Average Daily Traffic (ADT) Volumes





1.0 Introduction

The California State Legislature sets in place the regulations for California speed limits and the California Vehicle Code (CVC) places these regulations into language used primarily for enforcement purposes. Various jurisdictions have responsibility for roadways throughout California, including the responsibility to set speed limits on these roadways according to the standards and procedures established by Caltrans. The guidelines from the 2014 California Manual for Setting Speed Limits published by Caltrans (May 9, 2014) are used in this study. These guidelines help in establishing speed limits that are uniform throughout the state and avoid influence from political pressure or emotional perceptions.

The purpose of this survey is to evaluate the posted speed limits for 43 segments within the City of Marina and recommend speed limit changes, if any, in accordance with the State of California regulations and guidelines. CVC Section 40802 requires that Engineering and Traffic Survey (E&TS) for speed limits should be conducted at least once every 5, 7 or 10 years based on established criteria. State and local agencies re-evaluate non-statutory speed limits on their street segments that have undergone a significant change in roadway characteristics or surrounding land uses since the speed limits were last reviewed.

Speed limits are established primarily for protecting the public from the behavior of reckless, unreliable, or dangerous drivers. Speed limits are generally established at or near the 85th percentile speed. The 85th percentile speed, also referred to as the critical speed, is defined as the speed at or below which 85 percent of traffic is moving in free flow conditions. Speed limits established on this basis conform to the consensus of those who drive on the roadways as to what speed is reasonable and safe under normal driving conditions.

Many factors influence drivers and their perception of the safe speed at which to operate a vehicle. These factors should be considered as a whole because it is not practical to consider each individually. The design and physical characteristics of the roadway place limitations on the safe operating speed of vehicles. These characteristics include:

- ▶ Roadway geometrics, shoulder condition, grade, alignment, and sight distance
- Roadside development, zoning, and environment
- Parking practices, bicycle and pedestrian activity
- Driveway density
- Signalized or stop-controlled intersections
- ► Rural, residential or developed areas

This report presents the results of the E&TS conducted in June 2018 for 43 street segments throughout the City of Marina, and includes radar speed surveys, daily traffic counts, accidents summary and analysis of roadway characteristics. The 43 survey segments included in the study are classified as below:

- Two street segments are designated as 'Expressway'
- ▶ 17 street segments are designated as 'Arterial'
- 23 street segments are designated as 'Collector'
- One street segment is designated as 'Local'

The street segments surveyed in this E&TS report are listed in **Table 1**. The existing speed limits for the survey segments are illustrated in **Figure 1**.





Table 1: Survey Segments

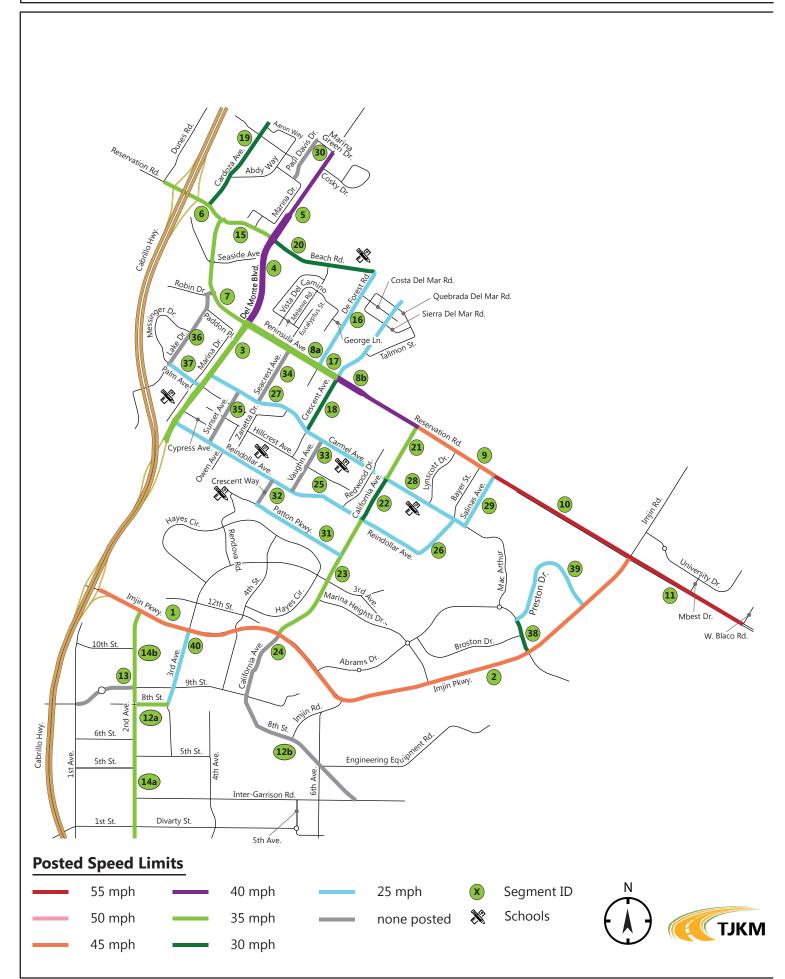
#	Street	Survey Limits	Roadway Classification	Roadway Type	# of Lanes	Width (feet)	Length (miles)	Existing Speed Limit (mph)
1	Imjin Parkway	State Route 1 to California Avenue	Expressway	Divided	4	70-80	0.96	45
2	Imjin Parkway	California Avenue to Reservation Road	Expressway	Undivided	2	40	2.03	45
3	Del Monte Boulevard	SR1/Reindollar Avenue to Reservation Road	Arterial	Divided	4	90	0.68	35
4	Del Monte Boulevard	Reservation Road to Beach Road	Arterial	Divided	4	65	0.44	40
5	Del Monte Boulevard	Beach Road to Marina Greens Drive	Arterial	Undivided	2	50	0.51	40, no sign
6	Reservation Road	Dunes Drive to Beach Road	Arterial	Undivided	2	40	0.34	35
7	Reservation Road	Beach Road to Del Monte Boulevard	Arterial	Undivided	2	40	0.59	35
8a	Reservation Road	Del Monte Boulevard to Crescent Avenue	Arterial	Divided	4	90	22.5	35
8b	Reservation Road	Crescent Avenue to California Avenue	Arterial	Undivided	4	90	22.5	40
9	Reservation Road	California Avenue to Salinas Avenue	Arterial	Undivided	4	80	0.44	45
10	Reservation Road	Salinas Avenue to Imjin Parkway	Arterial	Divided	4	60	0.76	55
11	Reservation Road	Imjin Parkway to Blanco Road	Arterial	Divided	5	100	0.63	55
12a	8th Street	2nd Avenue to 3rd Avenue	Collector	Undivided	2	34	0.16	35
12b	8th Street	5th Avenue to Inter-Garrison Road	Arterial	Undivided	2	30	0.62	not posted
13	9th Street	1st Avenue to 2nd Avenue	Arterial	Undivided	2	40	0.31	not posted
14a	2nd Avenue	Divarty Street to 8th Street	Arterial	Divided	2-4	65	16.25	35
14b	2nd Avenue	8th Street to Imjin Parkway	Arterial	Divided	2-4	65	16.25	35
15	Beach Road	Reservation Road to Del Monte Boulevard	Arterial	Undivided	2	50-90	0.27	35, no sign
16	De Forest Road	Beach Road to Reservation Road	Collector	Undivided	2	40	0.87	25
17	Crescent Avenue	Quebrada Del Mar to Reservation Road	Collector	Undivided	2	60	0.45	25
18	Crescent Avenue	Reservation Road to Carmel Avenue	Collector	Undivided	2	45	0.29	30





#	Street	Survey Limits	Roadway Classification	Roadway Type	# of Lanes	Width (feet)	Length (miles)	Existing Speed Limit (mph)
19	Cardoza Avenue	Reservation Road to Aaron Way (End)	Collector	Undivided	2	60	0.46	30
20	Beach Road	Del Monte Boulevard to De Forest Road	Collector	Undivided	2	35	0.52	30
21	California Avenue	Reservation Road to Carmel Avenue	Collector	Undivided	2	50	0.29	35
22	California Avenue	Carmel Avenue to Reindollar Avenue	Collector	Undivided	2	30-60	0.23	30
23	California Avenue	Reindollar Avenue to Imjin Parkway	Arterial	Undivided	2	35	0.69	35
24	California Avenue	Imjin Parkway to 8th Street	Arterial	Undivided	2	20	0.49	not posted
25	Reindollar Avenue	Del Monte Boulevard to California Avenue	Collector	Undivided	2	40	0.92	25
26	Reindollar Avenue/ Bostick Avenue	California Avenue to Carmel Avenue	Collector	Undivided	2	40	0.55	25, no sign
27	Carmel Avenue	Del Monte Boulevard to California Avenue	Collector	Undivided	2	40	0.76	25
28	Carmel Avenue	California Avenue to Salinas Avenue	Collector	Undivided	2	40	0.44	25, no sign
29	Salinas Avenue	Carmel Avenue to Reservation Road	Collector	Undivided	2	20	0.27	25
30	Paul Davis Drive	Healy Avenue to Marina Greens Drive	Collector	Undivided	2	40	0.21	not posted
31	Patton Parkway	Marina High School to California Avenue	Collector	Undivided	2	25	0.47	25
32	Crescent Street	Patton Parkway to Reindollar Avenue	Collector	Undivided	2	40	0.14	not posted
33	Vaughn Avenue	Reindollar Avenue to Carmel Avenue	Collector	Undivided	2	30	0.28	not posted
34	Seacrest Avenue	Carmel Avenue to Reservation Road	Collector	Undivided	2	40	0.29	not posted
35	Sunset Avenue	Reindollar Avenue to Carmel Avenue	Collector	Undivided	2	40	0.28	not posted
36	Lake Drive	Palm Avenue to Reservation Road	Collector	Undivided	2	40	0.39	not posted
37	Palm Avenue	Lake Drive to Del Monte Boulevard	Collector	Undivided	2	40	0.18	25, no sign
38	Abrams Drive	Preston Drive to Imjin Parkway	Collector	Undivided	2	25-40	0.17	30
39	Preston Drive	Abrams Drive to Imjin Parkway	Collector	Undivided	2	30	0.61	25
40	3rd Avenue	Imjin Parkway to 8th Street	Collector	Undivided	2	30	0.37	25







1.1 Relevant California Vehicle Code Sections

Applicable California Vehicle Code (CVC) Code sections for conducting an E&TS are summarized below:

CVC Section 235 – Business District: An area in which at least 50 percent of the properties are used for business for a minimum distance of 400 feet on one side or 300 feet on both sides of a highway.

CVC SECTION 515 – **RESIDENCE DISTRICT:** An area outside of the Business District along a highway that has a minimum of 13 separate dwelling units on one side, or 16 on both sides within a distance of a quarter mile.

CVC SECTION 627 – ENGINEERING AND TRAFFIC SURVEY: A survey of highway and traffic conditions in accordance with methods determined by the California Department of Transportation (Caltrans) for use by state and local authorities, which shall include consideration of prevailing speeds as determined by traffic engineering measurements, accident records, and highway, traffic, and roadside conditions not readily apparent to the driver. Local authorities may also consider residential district density (as defined in Section 515) and pedestrian and bicyclist safety.

CVC SECTION 21400 – ROUNDING OF SPEED LIMITS: Allows for setting the speed limit at the 5 mph increment below the 85th percentile even if mathematical rounding would require the speed to be posted above the 85th percentile. If this option is used, then the additional 5 mph reduction cannot be used. In effect, this law allows an engineer to round down to the nearest increment of the 85th instead of up. The engineer cannot then take a further reduction.

CVC Section 22349 – MAXIMUM SPEED LIMITS: Provides that no person shall drive a vehicle upon a highway at a speed greater than 65 mph. An exception to this, as stated in CVC Section 22356, is that Caltrans may increase the speed and these increases can only be made after consultation with the California Highway Patrol (CHP) and based on an engineering and traffic survey. Even if the maximum speed is raised, certain vehicles are still not permitted to be driven over 55 mph. These are listed below.

- Motor trucks having three or more axles or any truck towing another vehicle
- Passenger vehicles towing other vehicles
- School buses transporting school pupils
- Farm labor vehicles transporting passengers
- Vehicles transporting explosives

CVC SECTION 22350 – BASIC SPEED LAW: Provides that no person shall drive a vehicle upon a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and the surface and width of, the highway, and in no event at a speed which endangers the safety of persons or property. In other words, a driver violates the basic speed law if he or she is driving at unsafe speeds, even if that speed is lower than the posted regulatory speed limit sign.

CVC SECTION 22351 – SPEED LAW VIOLATIONS: States that the speed of any vehicle upon a highway not in excess of the limits specified in CVC Section 22352 or established as authorized in the CVC is lawful unless clearly proved to be in violation of the Basic Speed Law. This same section also states that the speed of any vehicle upon a highway in excess of the prima facie speed limits in CVC Section 22352 or established as authorized in the CVC is unlawful unless the defendant establishes by competent evidence that the speed in excess of said limits did not constitute a violation of the Basic Speed Law at the time, place and under the conditions then existing.

CVC Section 22352 – PRIMA FACIE SPEED LIMITS: Establishes prima facie speed limits for local roads and streets. The term "prima facie", as used in the CVC, is a speed limit that applies when no other specific





speed limit is posted. It is a Latin term meaning "at first face" or "at first appearance". It is also defined at "first view" and "before investigation". Prima facie evidence is evidence sufficient to establish fact, or to raise presumption of fact, unless rebutted. These speed limits shall be applicable unless changed as authorized in the CVC and, if so changed, only when signs have been erected giving notice thereof. It sets two speed limits covering six classes of location.

A speed limit of 15 MPH applies at railroad crossings, at uncontrolled highway intersections with obstructed view, and on alleys. A speed limit of 25 MPH applies on any highway other than State highways in any business or residence district, unless a different limit is established by procedures described in the CVC. The 25 MPH limit also applies in school zones.

CVC SECTION 22357 (INCREASE OF LOCAL SPEED LIMITS TO 65 MPH) AND CVC SECTION 22358 (DECREASE OF LOCAL SPEED LIMITS): Authorizes local authorities to establish prima facie speed limits on streets and roads under their jurisdiction, on the basis of an engineering and traffic survey.

CVC SECTION 22358.3 (DECREASE ON NARROW STREETS) AND CVC SECTION 22358.4 (DECREASE OF LOCAL LIMITS NEAR SCHOOLS OR SENIOR CENTERS): Authorizes local agencies to reduce prima facie speed limits to 20 or 15 mph on narrow streets (with roadway width less than 25 feet), school zones, or senior centers on the basis of engineering and traffic surveys.

CVC SECTION 22358.5 – DOWNWARD SPEED ZONING: 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.

CVC SECTION 40802 (A)(2) — PRIMA FACIE SPEED LIMITS: Provides that prima facie speed limits established under CVC Sections 22352(b)(1), 22354, 22357, 22358, and 22358.3 may not be enforced by radar unless the speed limit has been justified by an engineering and traffic survey within the last five years. This CVC section does not apply to a local street, road or school zone.

CVC SECTION 40802 (B) — PRIMA FACIE SPEED LIMITS: 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. When a street or road does not appear on the "California Road System Maps," it may be defined as a "local street or road" if it primarily provides access to abutting residential property and meets the following three conditions:

- ► Roadway width of not more than 40 feet.
- ▶ Not more than one-half of a mile of uninterrupted length. Interruptions shall include official traffic control signals as defined in CVC Section 445.
- ▶ Not more than one traffic lane in each direction.





2.0 DATA COLLECTION & ANALYSIS

The basic purpose of this study was to evaluate selected arterial, collector and local streets within the City of Marina limits and to recommend appropriate speed limit revisions consistent with current laws and practices of California. The TJKM team, in coordination with the City of Marina staff, coordinated the E&TS. The data collection procedure and speed survey analysis methodology is briefly discussed below:

2.1 RADAR SPEED SURVEYS & ANALYSIS

The speed surveys involve the use of radar guns to collect sample speeds on selected street segments. A key aspect for conducting the surveys is to ensure that street segments with unique characteristics are individually surveyed. The most crucial component of a speed zone survey is the selection of locations for the data collection task. The prevailing speed at the data collection point was selected to be the representative of the entire speed zone area.

The project team worked with the City of Marina staff and finalized the 43 street segments to be analyzed in this E&TS. Radar speed surveys were conducted in June and September 2018 on days with fair weather, clear visibility and dry pavement conditions. The survey locations were selected where the prevailing speeds were representative of the entire street segment and not too close to any traffic control device. The selected locations were situated beyond the influence of stops, dips, curves, parked vehicles and any other condition that may affect the normal rate of travel. An effort was made to ensure that the presence of radar survey equipment did not affect the speed of the traffic being surveyed.

The radar speed surveys for each roadway segment was conducted using calibrated radar equipment by certified technicians. Most samples sizes for a particular segment included 100-200 vehicles. In case of low volume roadways, surveys were conducted for a minimum of a 90 minute period.

A Speed Survey Form was used to collect and summarize the following attributes:

- Street surveyed
- ▶ Precise location
- Street direction
- Date/day of the survey
- Start time & end time of survey
- Number of vehicles surveyed
- ▶ 85th percentile speed, 50th percentile speed, 10 mile pace
- ▶ Percent and number of vehicles observed within the 10 mph pace speed
- ▶ Percent and number of vehicles observed below pace
- Percent and number of vehicles observed above pace
- ► Range of speeds observed and standard deviation

A description of some of the attributes is provided below:

50TH PERCENTILE SPEED (MEDIAN SPEED): The speed above and below which 50 percent of the sample speeds were observed. This value indicates the speed that a driver may choose to drive without the influence of any speed limits, speed signs, or enforcement.

85TH PERCENTILE SPEED (CRITICAL SPEED): The speed at or below which 85 percent of the sample speeds were observed. The 85th percentile speed of a spot speed survey is the primary indicator of the appropriate speed limit for a section of the roadway.

10 MPH PACE SPEED: The 10 mph increment (range) of speeds containing the greatest number of vehicles. In most cases, the 85th percentile speed and the recommended speed lie within the range, frequently in





the middle to upper range of the interval. The percent of vehicles that fall within the pace speed is an indicator of the bunching of vehicular speeds. The number of observed vehicles within the 10 mph pace is often between 40 and 80 percent of the entire sample.

AVERAGE SPEED: The average speed is simply the cumulative speed divided by the number of observed vehicles.

Speed Range: The range of speed is simply the speed of the fastest and slowest vehicles observed. A large range of speeds (in excess of 30 mph, for example) indicates less favorable conditions than a smaller range. The greater the range, the more inconsistency in travel speeds with a greater likelihood of traffic Collisions. In general, uniform speeds result in the smooth progression of traffic.

The radar speed survey data was compiled and analyzed to determine the 50th percentile speed, 85th percentile speed, average speed, speed range, 10 mph pace speed and the percent of vehicles observed within the 10 mph pace.

Table 2 presents the speed survey summary with existing speed limits, median speed, critical speed, 10 mile pace speed, and the percent of vehicles observed within pace. The completed speed survey forms for all 43 study segments are included in **Appendix B.**

2.2 Average Daily Traffic (ADT) Counts

The TJKM team conducted average daily traffic (ADT) counts across all study segments. These counts were used to determine the accident rates for each segment, which in turn was used as a factor in determining the appropriate speed limit for each segment. **Table 3** summarizes the roadway classification, orientation, directional traffic volumes and total traffic volumes for all of the study segments. The existing average daily traffic volumes for the survey segments are illustrated in **Figure 2**.

2.3 FIELD OBSERVATIONS

A final field check was conducted by driving each study segment while "floating" with prevailing traffic to determine the speed of traffic that is reasonable from the engineer's viewpoint. The traffic engineer evaluates the appropriateness of the 85th percentile speed and adds the perspective of human judgment to set the appropriate speed limit. Factors such as roadside development, the number and location of driveways, parked vehicles; emergency shoulder areas, schools and playgrounds, areas frequented by pedestrians, horizontal and vertical alignment of the roadway, intersection spacing, visibility and control, landscaping, street fixtures, and other less tangible factors, all contribute to finalizing the recommended speed limits.





Table 2: Speed Survey Summary

			Existing Speed		Speed Survey	Results (mph)	
#	Street	Survey Limits	Limit (mph)	Median	85th Percentile	10-Mile Pace	Percent w/in Pace
1	Imjin Parkway	State Route 1 to California Avenue	45	50	53	44-53	84%
2	Imjin Parkway	California Avenue to Reservation Road	45	50	54	45-54	82%
3	Del Monte Boulevard	SR1/Reindollar Avenue to Reservation Road	35	38	43	34-43	84%
4	Del Monte Boulevard	Reservation Road to Beach Road	40	36	41	31-40	77%
5	Del Monte Boulevard	Beach Road to Marina Greens Drive	40, no sign	40	45	35-44	72%
6	Reservation Road	Dunes Drive to Beach Road	35	30	36	27-36	54%
7	Reservation Road	Beach Road to Del Monte Boulevard	35	27	31	22-31	80%
8a	Reservation Road	Del Monte Boulevard to Crescent Avenue	35	30	36	26-35	64%
8b	Reservation Road	Crescent Avenue to California Avenue	40	40	47	36-45	56%
9	Reservation Road	California Avenue to Salinas Avenue	45	45	51	40-49	68%
10	Reservation Road	Salinas Avenue to Imjin Parkway	55	44	50	38-47	57%
11	Reservation Road	Imjin Parkway to Blanco Road	55	55	59	50-59	72%
12a	8th Street	2nd Avenue to 3rd Avenue	35	16	24	12-21	74%
12b	8th Street	5th Avenue to Inter-Garrison Road	not posted	34	40	29-38	74%
13	9th Street	1st Avenue to 2nd Avenue	not posted	26	31	20-29	75%
14a	2nd Avenue	Divarty Street to 8th Street	35	38	44	32-41	78%
14b	2nd Avenue	8th Street to Imjin Parkway	35	28	32	23-32	81%
15	Beach Road	Reservation Road to Del Monte Boulevard	35, no sign	29	34	24-33	72%
16	De Forest Road	Beach Road to Reservation Road	25	30	35	25-34	81%
17	Crescent Avenue	Quebrada Del Mar to Reservation Road	25	27	31	25-34	84%
18	Crescent Avenue	Reservation Road to Carmel Avenue	30	30	34	26-35	82%





			Existing Speed		Speed Survey	Results (mph)	
#	Street	Survey Limits	Limit (mph)	Median	85th Percentile	10-Mile Pace	Percent w/in Pace
19	Cardoza Avenue	Reservation Road to Aaron Way (End)	30	29	35	24-33	59%
20	Beach Road	Del Monte Boulevard to De Forest Road	30	30	35	26-35	73%
21	California Avenue	Reservation Road to Carmel Avenue	35	35	40	30-39	69%
22	California Avenue	Carmel Avenue to Reindollar Avenue	30	22	26	17-26	82%
23	California Avenue	Reindollar Avenue to Imjin Parkway	35	39	44	34-43	75%
24	California Avenue	Imjin Parkway to 8th Street	not posted	24	29	20-29	76%
25	Reindollar Avenue	Del Monte Boulevard to California Avenue	25	18	23	15-24	80%
26	Reindollar Avenue/ Bostick Avenue	California Avenue to Carmel Avenue	25, no sign	25	30	21-30	67%
27	Carmel Avenue	Del Monte Boulevard to California Avenue	25	27	31	22-31	67%
28	Carmel Avenue	California Avenue to Salinas Avenue	25, no sign	22	27	17-26	67%
29	Salinas Avenue	Carmel Avenue to Reservation Road	25	22	26	18-27	76%
30	Paul Davis Drive	Healy Avenue to Marina Greens Drive	not posted	25	30	20-29	72%
31	Patton Parkway	Marina High School to California Avenue	25	37	45	30-39	65%
32	Crescent Street	Patton Parkway to Reindollar Avenue	not posted	27	31	23-32	78%
33	Vaughn Avenue	Reindollar Avenue to Carmel Avenue	not posted	25	29	21-30	73%
34	Seacrest Avenue	Carmel Avenue to Reservation Road	not posted	28	33	24-33	73%
35	Sunset Avenue	Reindollar Avenue to Carmel Avenue	not posted	26	30	21-30	79%
36	Lake Drive	Palm Avenue to Reservation Road	not posted	24	30	20-29	57%
37	Palm Avenue	Lake Drive to Del Monte Boulevard	25, no sign	21	26	17-26	78%
38	Abrams Drive	Preston Drive to Imjin Parkway	30	31	35	27-36	84%
39	Preston Drive	Abrams Drive to Imjin Parkway	25	30	34	25-34	81%
40	3rd Avenue	Imjin Parkway to 8th Street	25	26	31	20-29	78%





Table 3: Daily Traffic Counts Summary

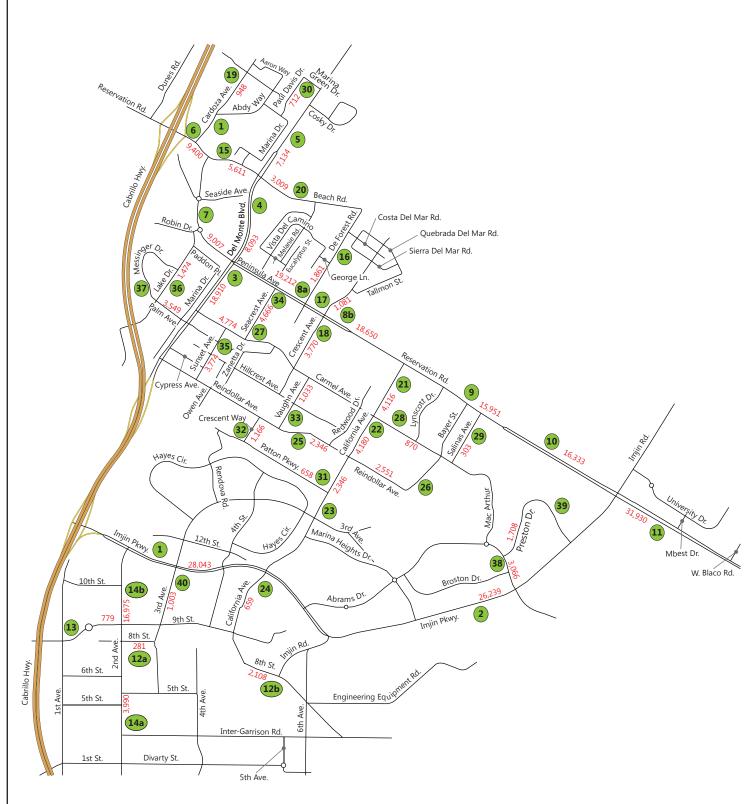
					Daily Traffic Volumes			
#	Street	Survey Limits Direction		Roadway Classification	NB/EB	SB/WB	Two Way Total	
1	Imjin Parkway	State Route 1 to California Avenue	EB/WB	Expressway	13983	14060	28,043	
2	Imjin Parkway	California Avenue to Reservation Road	EB/WB	Expressway	12388	13851	26,239	
3	Del Monte Boulevard	SR1/Reindollar Avenue to Reservation Road	NB/SB	Arterial	9860	9050	18,910	
4	Del Monte Boulevard	Reservation Road to Beach Road	NB/SB	Arterial	4392	3701	8,093	
5	Del Monte Boulevard	Beach Road to Marina Greens Drive	NB/SB	Arterial	3817	3317	7,134	
6	Reservation Road	Dunes Drive to Beach Road	EB/WB	Arterial	4367	5033	9,400	
7	Reservation Road	Beach Road to Del Monte Boulevard	NB/SB	Arterial	4388	4619	9,007	
8a	Reservation Road	Del Monte Boulevard to Crescent Avenue	EB/WB	Arterial	9876	9336	19,212	
8b	Reservation Road	Crescent Avenue to California Avenue	EB/WB	Arterial	9635	9015	18,650	
9	Reservation Road	California Avenue to Salinas Avenue	EB/WB	Arterial	8105	7846	15,951	
10	Reservation Road	Salinas Avenue to Imjin Parkway	EB/WB	Arterial	8148	8185	16,333	
11	Reservation Road	Imjin Parkway to Blanco Road	EB/WB	Arterial	15760	16170	31,930	
12a	8th Street	2nd Avenue to 3rd Avenue	EB/WB	Collector	112	169	281	
12b	8th Street	5th Avenue to Inter-Garrison Road	EB/WB	Arterial	1147	961	2,108	
13	9th Street	1st Avenue to 2nd Avenue	EB/WB	Arterial	283	496	779	
14a	2nd Avenue	Divarty Street to 8th Street	NB/SB	Arterial	1755	2235	3,990	
14b	2nd Avenue	8th Street to Imjin Parkway	NB/SB	Arterial	8231	8744	16,975	
15	Beach Road	Reservation Road to Del Monte Boulevard	EB/WB	Arterial	2578	3033	5,611	
16	De Forest Road	Beach Road to Reservation Road	NB/SB	Collector	857	1004	1,861	
17	Crescent Avenue	Quebrada Del Mar to Reservation Road	NB/SB	Collector	473	608	1,081	
18	Crescent Avenue	Reservation Road to Carmel Avenue	NB/SB	Collector	1854	1916	3,770	





		Survey Limits			Daily Traffic Volumes			
#	Street		Direction	Roadway Classification	NB/EB	SB/WB	Two Way Total	
19	Cardoza Avenue	Reservation Road to Aaron Way (End)	NB/SB	Collector	464	484	948	
20	Beach Road	Del Monte Boulevard to De Forest Road	EB/WB	Collector	1639	1370	3,009	
21	California Avenue	Reservation Road to Carmel Avenue	NB/SB	Collector	1895	2221	4,116	
22	California Avenue	Carmel Avenue to Reindollar Avenue	NB/SB	Collector	1813	2367	4,180	
23	California Avenue	Reindollar Avenue to Imjin Parkway	NB/SB	Arterial	2868	3173	6,041	
24	California Avenue	Imjin Parkway to 8th Street	NB/SB	Arterial	315	344	659	
25	Reindollar Avenue	Del Monte Boulevard to California Avenue	EB/WB	Collector	1124	1222	2,346	
26	Reindollar Avenue/ Bostick Avenue	California Avenue to Carmel Avenue	EB/WB	Collector	1186	1365	2,551	
27	Carmel Avenue	Del Monte Boulevard to California Avenue	EB/WB	Collector	2351	2423	4,774	
28	Carmel Avenue	California Avenue to Salinas Avenue	EB/WB	Collector	452	418	870	
29	Salinas Avenue	Carmel Avenue to Reservation Road	NB/SB	Collector	160	143	303	
30	Paul Davis Drive	Healy Avenue to Marina Greens Drive	NB/SB	Collector	317	395	712	
31	Patton Parkway	Marina High School to California Avenue	EB/WB	Collector	279	379	658	
32	Crescent Street	Patton Parkway to Reindollar Avenue	NB/SB	Collector	648	518	1,166	
33	Vaughn Avenue	Reindollar Avenue to Carmel Avenue	NB/SB	Collector	546	487	1,033	
34	Seacrest Avenue	Carmel Avenue to Reservation Road	NB/SB	Collector	2282	2384	4,666	
35	Sunset Avenue	Reindollar Avenue to Carmel Avenue	NB/SB	Collector	1771	2003	3,774	
36	Lake Drive	Palm Avenue to Reservation Road	NB/SB	Collector	648	826	1,474	
37	Palm Avenue	Lake Drive to Del Monte Boulevard	EB/WB	Collector	1827	1722	3,549	
38	Abrams Drive	Preston Drive to Imjin Parkway	NB/SB	Collector	1430	1636	3,066	
39	Preston Drive	Abrams Drive to Imjin Parkway	EB/WB	Collector	972	736	1,708	
40	3rd Avenue	Imjin Parkway to 8th Street	NB/SB	Collector	368	635	1,003	





Posted Speed Limits



Segment ID

xx Average Daily Traffic Volume







2.4 TRAFFIC COLLISION DATA

Collisions reported at study roadway segments were obtained from the Statewide Integrated Traffic Records System (SWITRS) database for a period of 5 years from January 2013 to December 2017. Collision rates are a significant factor in determining the appropriate speed limits.

Table 4 summarizes the type and the total number of collisions for all study segments. **Table 5** summarizes the collision rate for the study segments in comparison with the statewide averages.

DEFINITIONS FOR COLLISION TYPES: The types of collisions and their definitions as defined by CHP are listed below:



HEAD-ON: Two motor vehicles, approaching from opposite directions, make direct contact. For example, the front of one vehicle collides with the front of another, or prior to impact, one vehicle skids sideways, causing the side of the skidding vehicle to collide with the front of the other.



SIDESWIPE: One motor vehicle strikes the side of another with a glancing blow. For example, two vehicles are proceeding in the same direction or from opposite directions, and the side of one vehicle strikes the side of the other.



REAR END: Two motor vehicles, traveling in the same direction, make direct contact. For example, the front of one vehicle strikes the rear of another vehicle, or Vehicle #1 approaches Vehicle #2 from the rear and skids sideways during a braking action, causing the side of Vehicle #1 to strike the rear of Vehicle #2.



BROADSIDE: One motor vehicle strikes another vehicle at an angle greater than that of a sideswipe.



HIT OBJECT: A motor vehicle strikes a fixed object or other object.



OVERTURNED: A motor vehicle overturns and no prior collision or hitting an object caused the overturning. This would include a motorcyclist losing control, causing the vehicle to lie down on its side.



AUTO/PED: A vehicle strikes a pedestrian.



OTHER: A collision not covered in the preceding elements. This entry shall be explained in the narrative, such as a vehicle involved with - a bicycle, train, or animal; an automobile fire; passengers falling or jumping from a vehicle; a vehicle backing; a bicycle involved with a pedestrian or another bicycle, etc.





Table 4: Collision History Summary (Jan. 2013 – Dec. 2017)

	Church	Communities	Total # of				Acciden	t Type			
#	Street	Survey Limits	Accidents	Head-On	Sideswipe	Rear End	Broadside	Hit Object	Overturned	Auto/Ped	Other
1	lmjin Parkway	State Route 1 to California Avenue	160	4	19	92	32	11			2
2	lmjin Parkway	California Avenue to Reservation Road	233	3	26	159	15	18	5	4	3
3	Del Monte Blvd.	SR1/Reindollar Ave. to Reservation Rd.	133	2	23	53	42	5		5	3
4	Del Monte Blvd.	Reservation Road to Beach Road	31	1	2	3	10	12	2		1
5	Del Monte Blvd.	Beach Road to Marina Greens Drive	17	1	2	3	7	1		2	1
6	Reservation Road	Dunes Drive to Beach Road	24	2	6	9	5			2	
7	Reservation Road	Beach Road to Del Monte Boulevard	35	1	6	5	4	15			4
8a	Reservation Road	Del Monte Boulevard to Crescent Avenue	94	2	18	43	17	7		2	5
8b	Reservation Road	Crescent Avenue to California Avenue	49	4	14	16	10	2		1	2
9	Reservation Road	California Avenue to Salinas Avenue	8		2	4	2				
10	Reservation Road	Salinas Avenue to Imjin Parkway	15		2	7	5				1
11	Reservation Road	Imjin Parkway to Blanco Road	50	2	8	25	7	7	1		
12a	8th Street	2nd Avenue to 3rd Avenue	1				1				
12b	8th Street	5th Avenue to Inter-Garrison Road	4	1			1	2			
13	9th Street	1st Avenue to 2nd Avenue	4		1		2	1			
14a	2nd Avenue	Divarty Street to 8th Street	1			1					
14b	2nd Avenue	8th Street to Imjin Parkway	22		7	5	4	3			3
15	Beach Road	Reservation Rd. to Del Monte Blvd.	29	2	8	3	6	4		1	5
16	De Forest Road	Beach Road to Reservation Road	13		2	4	4	1		1	1
17	Crescent Avenue	Quebrada Del Mar to Reservation Road	5	2	2		1				
18	Crescent Avenue	Reservation Road to Carmel Avenue	13		1	1	5	2	1	1	2





			Total # of				Accident	Туре			
#	Street	Street Survey Limits		Head-On	Sideswipe	Rear End	Broadside H	lit Object	Overturned	Auto/Ped	Other
19	Cardoza Avenue	Reservation Road to Aaron Way (End)	3	1		1		1			
20	Beach Road	Del Monte Boulevard to De Forest Road	21	2	8	4	3	3			1
21	California Avenue	Reservation Road to Carmel Avenue	6		1	1	1	1		2	
22	California Avenue	Carmel Avenue to Reindollar Avenue	5		1	1	1	2			
23	California Avenue	Reindollar Avenue to Imjin Parkway	14	2	1	4	4	2	1		
24	California Avenue	Imjin Parkway to 8th Street	2			1					1
25	Reindollar Avenue	Del Monte Boulevard to California Avenue	28	1	11	2	8	4			2
26	Reindollar Avenue/ Bostick Avenue	California Avenue to Carmel Avenue	4	1		1	1	1			
27	Carmel Avenue	Del Monte Boulevard to California Avenue	55	3	16	15	14	3		2	2
28	Carmel Avenue	California Avenue to Salinas Avenue	13	1	4	5	2	1			
29	Salinas Avenue	Carmel Avenue to Reservation Road	0								
30	Paul Davis Drive	Healy Avenue to Marina Greens Drive	4		1	2	1				
31	Patton Parkway	Marina High School to California Ave.	2	1			1				
32	Crescent Street	Patton Parkway to Reindollar Avenue	4		2	1	1				
33	Vaughn Avenue	Reindollar Avenue to Carmel Avenue	4	1	1		1	1			
34	Seacrest Avenue	Carmel Avenue to Reservation Road	14	2	6	2	1	2		1	
35	Sunset Avenue	Reindollar Avenue to Carmel Avenue	16		7	4	3			1	1
36	Lake Drive	Palm Avenue to Reservation Road	13	2	2	2	2	4			1
37	Palm Avenue	Lake Drive to Del Monte Boulevard	12	2	2	3	4				1
38	Abrams Drive	Preston Drive to Imjin Parkway	5	1	1	1	1	1			
39	Preston Drive	Abrams Drive to Imjin Parkway	4		1	1	2				
40	3rd Avenue	Imjin Parkway to 8th Street	1					1			





Table 5: Collision Rate Summary

			-			
#	Street	Survey Limits	# of Collisions (Jan. 2013 – Dec. 2017)	Collision Rate	State Average Collision Rate	Less than State Average?
1	Imjin Parkway	State Route 1 to California Avenue	160	3.27	0.92	NO
2	Imjin Parkway	California Avenue to Reservation Road	233	2.40	0.68	NO
3	Del Monte Boulevard	SR1/Reindollar Avenue to Reservation Road	133	5.64	1.3	NO
4	Del Monte Boulevard	Reservation Road to Beach Road	31	4.79	1.3	NO
5	Del Monte Boulevard	Beach Road to Marina Greens Drive	17	2.57	1.37	NO
6	Reservation Road	Dunes Drive to Beach Road	24	4.12	1.37	NO
7	Reservation Road	Beach Road to Del Monte Boulevard	35	3.64	1.37	NO
8a	Reservation Road	Del Monte Boulevard to Crescent Avenue	94	5.30	1.3	94
8b	Reservation Road	Crescent Avenue to California Avenue	49	3.25	1.61	49
9	Reservation Road	California Avenue to Salinas Avenue	8	0.63	1.61	YES
10	Reservation Road	Salinas Avenue to Imjin Parkway	15	0.66	1.3	YES
11	Reservation Road	Imjin Parkway to Blanco Road	50	1.36	1.3	NO
12a	8th Street	2nd Avenue to 3rd Avenue	1	12.11	1.37	NO
12b	8th Street	5th Avenue to Inter-Garrison Road	4	1.67	1.37	NO
13	9th Street	1st Avenue to 2nd Avenue	4	9.22	1.37	NO
14a	2nd Avenue	Divarty Street to 8th Street	1	0.23	1.37	YES
14b	2nd Avenue	8th Street to Imjin Parkway	22	1.58	1.37	NO
15	Beach Road	Reservation Road to Del Monte Boulevard	29	10.56	1.37	NO
16	De Forest Road	Beach Road to Reservation Road	13	4.42	1.37	NO
17	Crescent Avenue	Quebrada Del Mar to Reservation Road	5	5.62	1.37	NO
18	Crescent Avenue	Reservation Road to Carmel Avenue	13	6.51	1.37	NO
19	Cardoza Avenue	Reservation Road to Aaron Way (End)	3	3.73	1.37	NO





#	Street	Survey Limits	# of Collisions (Jan. 2013 – Dec. 2017)	Collision Rate	State Average Collision Rate	Less than State Average?
20	Beach Road	Del Monte Boulevard to De Forest Road	21	7.29	1.37	NO
21	California Avenue	Reservation Road to Carmel Avenue	6	2.75	1.37	NO
22	California Avenue	Carmel Avenue to Reindollar Avenue	5	2.87	1.37	NO
23	California Avenue	Reindollar Avenue to Imjin Parkway	14	1.84	1.37	NO
24	California Avenue	Imjin Parkway to 8th Street	2	3.40	1.37	NO
25	Reindollar Avenue	Del Monte Boulevard to California Avenue	28	7.12	1.37	NO
26	Reindollar Avenue/ Bostick Avenue	California Avenue to Carmel Avenue	4	1.56	1.37	NO
27	Carmel Avenue	Del Monte Boulevard to California Avenue	55	8.35	1.37	NO
28	Carmel Avenue	California Avenue to Salinas Avenue	13	18.80	1.37	NO
29	Salinas Avenue	Carmel Avenue to Reservation Road	0	0.00	1.37	YES
30	Paul Davis Drive	Healy Avenue to Marina Greens Drive	4	14.41	1.37	NO
31	Patton Parkway	Marina High School to California Avenue	2	3.58	1.37	NO
32	Crescent Street	Patton Parkway to Reindollar Avenue	4	13.80	1.37	NO
33	Vaughn Avenue	Reindollar Avenue to Carmel Avenue	4	7.46	1.37	NO
34	Seacrest Avenue	Carmel Avenue to Reservation Road	14	5.76	1.37	NO
35	Sunset Avenue	Reindollar Avenue to Carmel Avenue	16	8.21	1.37	NO
36	Lake Drive	Palm Avenue to Reservation Road	13	12.31	1.37	NO
37	Palm Avenue	Lake Drive to Del Monte Boulevard	12	10.20	1.37	NO
38	Abrams Drive	Preston Drive to Imjin Parkway	5	5.24	1.37	NO
39	Preston Drive	Abrams Drive to Imjin Parkway	4	2.10	1.37	NO
40	3rd Avenue	Imjin Parkway to 8th Street	1	1.48	1.37	NO

Note: The segments below the statewide average collision rate would be considered to be non-hazardous.





3.0 SPEED LIMIT RECOMMENDATIONS

The setting of speed limits requires a rational and defensible procedure to maintain the confidence of the public and legal systems. Speed limit determinations rely on the premise that a reasonable speed limit is one that conforms to the actual behavior of the majority of drivers; one will be able to select a speed limit that is both reasonable and effective by measuring drivers' speeds.

In 2004, in order to better conform to the standards established in the Federal Highway Administration's *Manual on Uniform Traffic Control Devices (MUTCD)*, the speed zoning section of the California MUTCD was changed to require rounding the 85th percentile to the nearest 5 mph increment rather than the lower 5 mph increment. This specific guideline revision resulted in raising certain street speed limits and had become a challenge to state and local jurisdictions.

In 2007, the California Traffic Control Devices Committee (CTCDC) ruled to approve a language change in the CA MUTCD to clarify how local speed limits should be set. Caltrans ultimately issued a *Traffic Operations Policy Directive (TOPD No. 09-04)*, effective July 1, 2009, which clearly defined these changes and incorporated new requirements into the CA MUTCD. The changes are summarized below:

- ▶ Posted speed limits will be set "rounded to the nearest" 5 mph increment of the 85th percentile speed.
- ▶ Jurisdictions can lower this speed by an additional 5 mph based on and justified by conditions and factors cited in the California Vehicle Code.

Studies of the effects of establishing, raising and lowering speed limits include federal studies FHWA-RD-92-084 and FHWA-RD-98-154. 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. In addition, setting the speed limit arbitrarily low often makes violators of a disproportionate number of drivers, does not facilitate the orderly movement of traffic, and requires constant enforcement to maintain compliance.

The 2014 Edition of the CA MUTCD requires as a standard that a speed limit shall be established at the nearest 5 mph increment of the 85th percentile speed, except that 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 CVC 22358.5. According to CVC 21400, for cases in which the nearest 5 mph increment of the 85th percentile speed would require rounding up, the speed limit may be rounded down to the nearest 5 mph increment below the 85th percentile speed if no further reduction is used. The following examples are provided to explain the application of these speed limit criteria:

- ▶ If the 85th percentile speed in a speed survey for a location was 37 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 37 mph speed. The 35 mph established speed limit can be reduced by 5 mph to 30 mph if the conditions and justification for using this lower speed limit are documented in the E&TS and approved by a registered Civil or Traffic Engineer.
- ▶ If the 85th percentile speed in a speed survey for a location was 33 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 33 mph speed. The 35 mph established speed limit can be reduced by 5 mph to 30 mph if the conditions and





justification for using this lower speed limit are documented in the E&TS and approved by a registered Civil or Traffic Engineer.

Section 2B.13 of the 2014 CA MUTCD specifies that the above examples apply to all E&TS performed on or after July 1, 2009, as outlined in *Traffic Operations Policy Directive (No. 09-04)*, described above. The section further states that justification for reducing speed limits can be based on residential density, pedestrian/bicyclist safety and other factors not readily apparent to drivers but essential to meet the traffic safety needs of the community. The following factors may be considered to adjust and determine the final speed limits:

- ▶ Road characteristics, shoulder condition, grade, alignment, and sight distance
- ▶ 10 mph pace speed (a 10 mile range in which the highest number of data is recorded)
- ► Roadside development and environment
- ► Parking practices and bicycle/pedestrian activity
- ▶ Reported crash experience for at least a 12-month period

In addition to the technical factors described above, the following factors may be considered when determining the final speed limit, within the requirements described above:

- ► Avoid changing the existing posted speed limit, unless roadway or land use characteristics have changed since the previous E&TS
- ► Avoid frequent speed limit increases and decreases along a roadway
- ▶ Minimize the number of 5 mph speed limit increases or decreases along a roadway

The guidelines from the 2014 California Manual for Setting Speed Limits (May 9, 2014; updated March 9, 2018) published by Caltrans were followed in this study. The speed limit recommendations are proposed for the 43 street segments in the study based on the above discussed guidelines and speed data analysis. The speed limit for each study segment was recommended after determining the average speed, 85th percentile speed, pace speed and considering other significant factors such as existing land use, roadway design characteristics and accident rates. **Appendix A** presents the results of the traffic survey analyses, which include prevailing speed data, accident history, traffic factors, and roadway conditions. The recommended speed limit for each street segment is also shown with a comment on the rationale for the recommendation.

Table 6 shows the existing and recommended speed limits for all of the 43 study segments. **Figure 3** illustrates segments with recommended speed limit changes, and **Figure 4** shows the recommended speed limit for all of the study segments. The recommendations are highlighted below:

AN <u>INCREASE OF 5 MPH</u> IN SPEED LIMIT IS RECOMMENDED FOR SEVEN ROADWAY SEGMENTS:

1)	Segment #1	Imjin Parkway from State Route 1 to California Avenue
2)	Segment #2	Imjin Parkway from Imjin Road to Reservation Road
3)	Segment #3	Del Monte Boulevard from SR1/Reindollar Avenue to Reservation Road
4)	Segment #16	De Forest Road from Beach Road to Reservation Road
5)	Segment #23	California Avenue from Reindollar Avenue to Imjin Parkway
6)	Segment #26	Reindollar Avenue/Bostick Avenue from California Avenue to Carmel Avenue
7)	Segment #39	Preston Drive from Abrams Drive to Imjin Parkway

A DECREASE OF 5 MPH IN SPEED LIMIT IS RECOMMENDED FOR TWO ROADWAY SEGMENTS:

1) Segment #7 Reservation Road from Beach Road to Del Monte Boulevard





2) Segment #22 California Avenue from Carmel Avenue to Reindollar Avenue

AN <u>INCREASE OF 10 MPH</u> IN SPEED LIMIT IS RECOMMENDED FOR ONE ROADWAY SEGMENT:

1) Segment #14a 2nd Avenue from Divarty Street to 8th Street

A DECREASE OF 10 MPH IN SPEED LIMIT IS RECOMMENDED FOR ONE ROADWAY SEGMENT:

1) Segment #12a 8th Street from 2nd Avenue to 3rd Avenue

AN INCREASE OF 15 MPH IN SPEED LIMIT IS RECOMMENDED FOR ONE ROADWAY SEGMENT:

1) Segment #31 Patton Parkway from Marina High School to California Avenue

THERE IS NO CHANGE IN SPEED LIMITS FOR THE FOLLOWING 22 ROADWAY SEGMENTS:

1)	Segment #4	Del Monte Boulevard from Reservation Road to Beach Road
2)	Segment #5	Del Monte Boulevard from Beach Road to Marina Greens Drive
3)	Segment #6	Reservation Road from Dunes Drive to Beach Road
4)	Segment #8a	Reservation Road from Del Monte Boulevard to Crescent Avenue
5)	Segment #8b	Reservation Road from Crescent Avenue to California Avenue
6)	Segment #9	Reservation Road from California Avenue to Salinas Avenue
7)	Segment #10	Reservation Road from Salinas Avenue to Imjin Parkway
8)	Segment #11	Reservation Road from Imjin Parkway to Blanco Road
9)	Segment #14b	2nd Avenue from 8th Street to Imjin Parkway
10)	Segment #15	Beach Road from Reservation Road to Del Monte Boulevard
11)	Segment #17	Crescent Avenue from Quebrada Del Mar to Reservation Road
12)	Segment #18	Crescent Avenue from Reservation Road to Carmel Avenue
13)	Segment #19	Cardoza Avenue from Reservation Road to Aaron Way (End)
14)	Segment #20	Beach Road from Del Monte Boulevard to De Forest Road
15)	Segment #21	California Avenue from Reservation Road to Carmel Avenue
16)	Segment #25	Reindollar Avenue from Del Monte Boulevard to California Avenue
17)	Segment #27	Carmel Avenue from Del Monte Boulevard to California Avenue
18)	Segment #28	Carmel Avenue from California Avenue to Salinas Avenue
19)	Segment #29	Salinas Avenue from Carmel Avenue to Reservation Road
20)	Segment #37	Palm Avenue from Lake Drive to Del Monte Boulevard
21)	Segment #38	Abrams Drive from Preston Drive to Imjin Parkway
22)	Segment #40	3rd Avenue from Imjin Parkway to 8th Street

ESTABLISHING A POSTED SPEED LIMIT IS RECOMMENDED FOR NINE SEGMENTS:

1)	Segment #12b	8th Street from 5th Avenue to Inter-Garrison Road
2)	Segment #13	9th Street from 1st Avenue to 2nd Avenue
3)	Segment #24	California Avenue from Imjin Parkway to 8th Street
4)	Segment #30	Paul Davis Drive from Healy Avenue to Marina Greens Driver
5)	Segment #32	Crescent Street from Patton Parkway to Reindollar Avenue





6)	Segment #33	Vaughn Avenue from Reindollar Avenue to Carmel Avenue
7)	Segment #34	Seacrest Avenue from Carmel Avenue to Reservation Road
8)	Segment #35	Sunset Avenue from Reindollar Avenue to Carmel Avenue
9)	Segment #36	Lake Drive from Palm Avenue to Reservation Road





Table 6: Recommended Speed Limits Summary

			NA/: alada		Speed (mph)		Changes to
#	Street	Survey Limits	Width (feet)	Existing	85th Percentile	Recommended	Existing Speed Limit
1	Imjin Parkway	State Route 1 to California Avenue	70-80	45	53	50	5
2	Imjin Parkway	California Avenue to Reservation Road	40	45	54	50	5
3	Del Monte Boulevard	SR1/Reindollar Avenue to Reservation Road	90	35	43	40	5
4	Del Monte Boulevard	Reservation Road to Beach Road	65	40	41	40	0
5	Del Monte Boulevard	Beach Road to Marina Greens Drive	50	40, no sign	45	40	0
6	Reservation Road	Dunes Drive to Beach Road	40	35	36	35	0
7	Reservation Road	Beach Road to Del Monte Boulevard	40	35	31	30	-5
8a	Reservation Road	Del Monte Boulevard to Crescent Avenue	90	35	36	35	0
8b	Reservation Road	Crescent Avenue to California Avenue	90	40	47	40	0
9	Reservation Road	California Avenue to Salinas Avenue	80	45	51	45	0
10	Reservation Road	Salinas Avenue to Imjin Parkway	60	55	50	55	0
11	Reservation Road	Imjin Parkway to Blanco Road	100	55	59	55	0
12a	8th Street	2nd Avenue to 3rd Avenue	34	35	24	25	-10
12b	8th Street	5th Avenue to Inter-Garrison Road	30	not posted	40	40	New
13	9th Street	1st Avenue to 2nd Avenue	40	not posted	31	30	New
14a	2nd Avenue	Divarty Street to 8th Street	65	35	44	45	10
14b	2nd Avenue	8th Street to Imjin Parkway	65	35	32	35	0
15	Beach Road	Reservation Road to Del Monte Boulevard	50-90	35, no sign	34	35	0
16	De Forest Road	Beach Road to Reservation Road	40	25	35	30	5
17	Crescent Avenue	Quebrada Del Mar to Reservation Road	60	25	31	25	0
18	Crescent Avenue	Reservation Road to Carmel Avenue	45	30	34	30	0

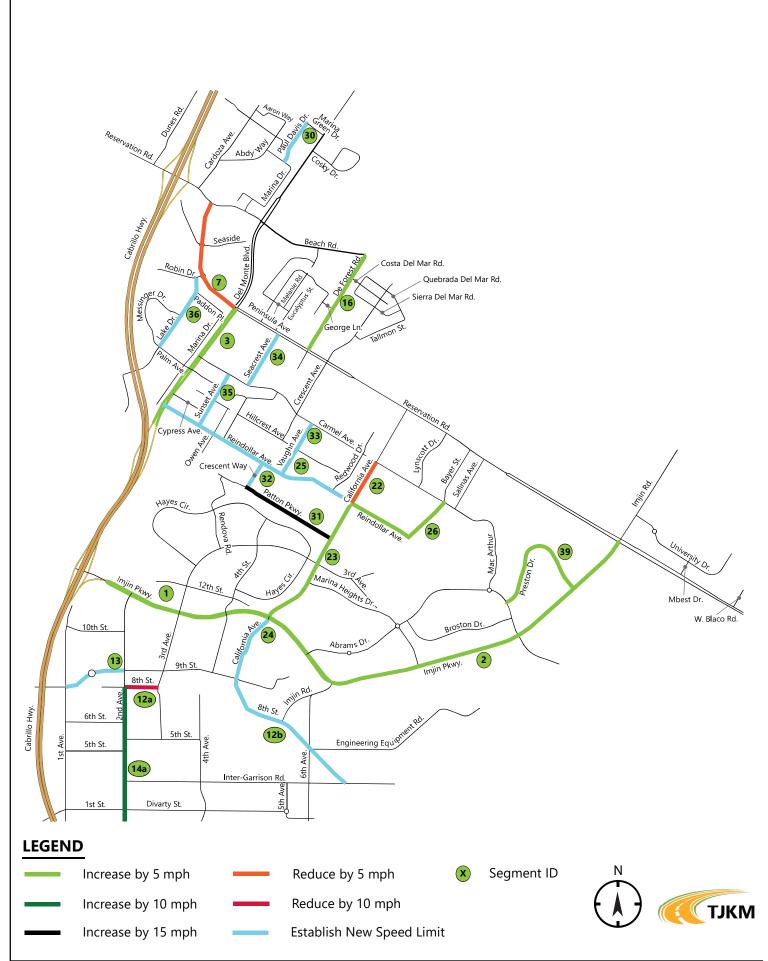




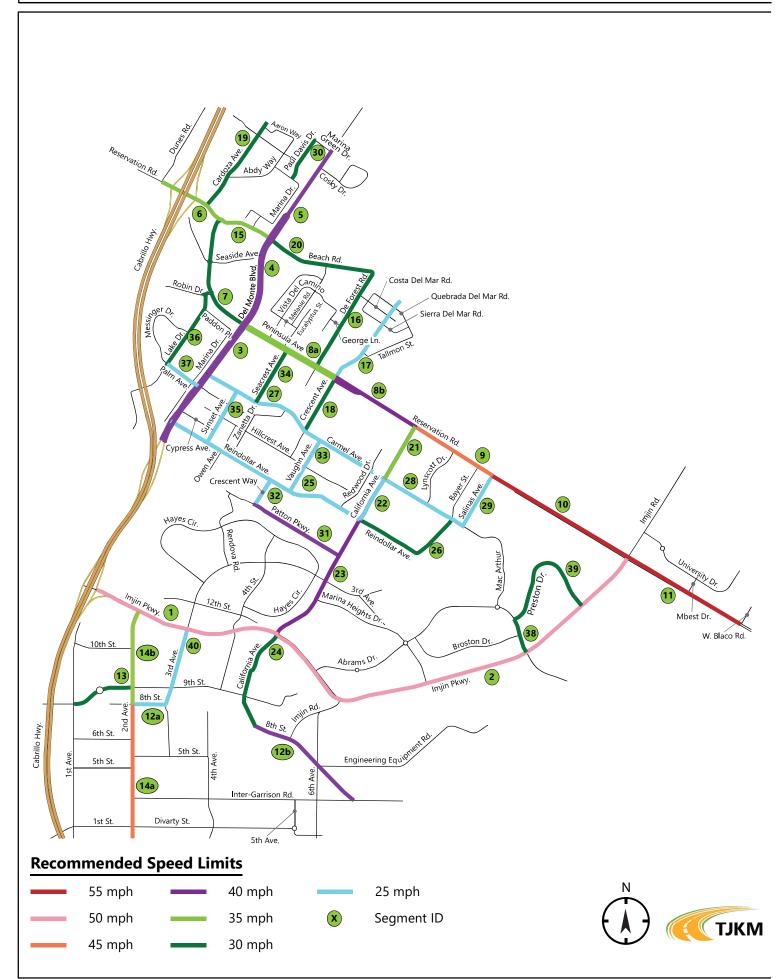
			Width		Speed (mph)		Changes to
#	Street	Survey Limits	(feet)	Existing	85th Percentile	Recommended	Existing Speed Limit
19	Cardoza Avenue	Reservation Road to Aaron Way (End)	60	30	35	30	0
20	Beach Road	Del Monte Boulevard to De Forest Road	35	30	35	30	0
21	California Avenue	Reservation Road to Carmel Avenue	50	35	40	35	0
22	California Avenue	Carmel Avenue to Reindollar Avenue	30-60	30	26	25	-5
23	California Avenue	Reindollar Avenue to Imjin Parkway	35	35	44	40	5
24	California Avenue	Imjin Parkway to 8th Street	20	not posted	29	30	New
25	Reindollar Avenue	Del Monte Boulevard to California Avenue	40	25	23	25	0
26	Reindollar Avenue/ Bostick Avenue	California Avenue to Carmel Avenue	40	25, no sign	30	30	5
27	Carmel Avenue	Del Monte Boulevard to California Avenue	40	25	31	25	0
28	Carmel Avenue	California Avenue to Salinas Avenue	40	25, no sign	27	25	0
29	Salinas Avenue	Carmel Avenue to Reservation Road	20	25	26	25	0
30	Paul Davis Drive	Healy Avenue to Marina Greens Drive	40	not posted	30	30	New
31	Patton Parkway	Marina High School to California Avenue	25	25	45	40	15
32	Crescent Street	Patton Parkway to Reindollar Avenue	40	not posted	31	25	New
33	Vaughn Avenue	Reindollar Avenue to Carmel Avenue	30	not posted	29	25	New
34	Seacrest Avenue	Carmel Avenue to Reservation Road	40	not posted	33	30	New
35	Sunset Avenue	Reindollar Avenue to Carmel Avenue	40	not posted	30	25	New
36	Lake Drive	Palm Avenue to Reservation Road	40	not posted	30	30	New
37	Palm Avenue	Lake Drive to Del Monte Boulevard	40	25, no sign	26	25	0
38	Abrams Drive	Preston Drive to Imjin Parkway	25-40	30	35	30	0
39	Preston Drive	Abrams Drive to Imjin Parkway	30	25	34	30	5
40	3rd Avenue	Imjin Parkway to 8th Street	30	25	31	25	0



Recommended Speed Limit Changes



280-002 | 05/15/20 Figure 3





APPENDIX A RECOMMENDED SPEED LIMIT CERTIFICATIONS



Street: Imjin Pkwy

Limits: State Route I to California Ave.

Direction: EB/WB



Factors

a. Prevailing Speed Data	
Location of Survey	w/o 4th St.
Date of Survey	5/18/2018
Posted Speed Limit (mph)	45
# Speed Data Collected	176
85th Percentile (mph)	53
10 mph Pace	44-53
Percent in Pace	84%



B. Traffic Factors

Average Daily Traffic (ADT) 28,043
Length of Segment (mi.) 0.96

Street Classification Expressway

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 160
Accident Rate (Acc/MVM) 3.27
Statewide Average Accident Rate 0.92

D. Roadway Conditions

Adjacent Land Use The land adjacent to this roadway is generally undeveloped.

Roadway Geometrics

Two-lane divided roadway with raised medians, bike lanes, and a parallel bike path on the south side. Sidewalks are present on the north side and on the south side south of 2nd Street. Signalized

intersections have turn pockets and crosswalks. The segment features vertical curves near

California Avenue.

Comments Results of the attached engineering & traffic survey information support increasing the posted

speed limit by 5 mph to 50 mph. The **high collision rate** and **presence of bicyle lanes and pedestrian crossings** indicate that further increases may be unsafe, therefore, a **permitted 5**

mph reduction was applied to the 85th percentile speed.

Speed Limit Change? Yes

Existing Speed Limit: 45 mph Recommended Speed Limit: 50 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Imjin Pkwy

Limits: California Ave. to Reservation Rd.

Direction: EB/WB



Factors

A. Prevailing Speed Data	
Location of Survey	e/o Marina Heights Dr.
Date of Survey	5/22/2018
Posted Speed Limit (mph)	45
# Speed Data Collected	177
85th Percentile (mph)	54
10 mph Pace	45-54



Survey Location

B. Traffic Factors

Percent in Pace

Average Daily Traffic (ADT) 26,239
Length of Segment (mi.) 2.03

Street Classification Expressway

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 233
Accident Rate (Acc/MVM) 2.4
Statewide Average Accident Rate 0.68

D. Roadway Conditions

Adjacent Land Use The land adjacent to this roadway is generally undeveloped.

82%

Roadway Geometrics Two-lane roadway with raised medians west of Imjin Road and double yellow center striping

between California Ave. and Reservation Rd. Bike lanes are present along the segment. Signalized intersections have turn pockets and crosswalks. The segment features vertical and horizontal

curves east of California Ave.

Comments Results of the attached engineering & traffic survey information support increasing the posted

speed limit by 5 mph to 50 mph. The **high collision rate** and **presence of bicyle lanes and pedestrian crossings** indicate that further increases may be unsafe, therefore, a **permitted 5**

mph reduction was applied to the 85th percentile speed.

Speed Limit Change? Yes

Existing Speed Limit: 45 mph Recommended Speed Limit: 50 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Del Monte Blvd.

Limits: SRI/Reindollar Ave. to Reservation Rd.

Direction: NB/SB



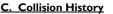
Survey Location

Factors

A. Prevailing Speed Data	
Location of Survey	s/o Palm Ave.
Date of Survey	5/23/2018
Posted Speed Limit (mph)	35
# Speed Data Collected	158
85th Percentile (mph)	43
10 mph Pace	34-43
Percent in Pace	84%

B. Traffic Factors

Average Daily Traffic (ADT)	18,910
Length of Segment (mi.)	0.68
Street Classification	Arterial



Date Range Covered	1/1/2013-12/31/2017
--------------------	---------------------

Total Accidents 133 Accident Rate (Acc/MVM) 5.64 1.3 Statewide Average Accident Rate

D. Roadway Conditions

Adjacent Land Use	Adjacent land uses are generally commercial on the east side. Railroad tracks run parallel to the
	west side.

Roadway Geometrics Four-lane divided roadway with raised medians, with sidewalks and commercial driveways on the

east side only. Signalized intersections have turn pockets and crosswalks. There is a parallel bike path on the west side, and school crossings at Palm Ave. The segment is generally straight and flat.

Results of the attached engineering & traffic survey information support increasing the posted Comments

> speed limit by 5 mph to 40 mph. The high collision rate and presence of pedestrian crossings indicate that further increases may be unsafe, therefore, a permitted 5 mph reduction was applied to the 85th percentile speed.

Speed Limit Change?

Existing Speed Limit: 35 mph Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Yes

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Del Monte Blvd.

Limits: Reservation Rd. to Beach Rd.

Direction: NB/SB



Dimaggio

Survey Location

Park

ractors

. Prevailing Speed Data	
Location of Survey	s/o Beach Rd.
Date of Survey	5/16/2018
Posted Speed Limit (mph)	40
# Speed Data Collected	204
85th Percentile (mph)	41
10 mph Pace	31-40
Percent in Pace	77%



Average Daily Traffic (ADT) 8,093

Length of Segment (mi.) 0.44

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 31
Accident Rate (Acc/MVM) 4.79
Statewide Average Accident Rate 1.3

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are commercial, with two parks.

Roadway Geometrics Four-lane divided roadway with raised medians, with sidewalks on the east side only. There is a

roundabout with crosswalks at the northern segment limit and a signalized intersection with turn pockets and crosswalks at the southern limit. There is a parallel bike path on the west side, The

segment features gentle vertical and horizontal curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

40 mph speed limit. This is further supported by the high collision rate, and for consistency

with adjacent roadway segments.

Speed Limit Change? No

Existing Speed Limit: 40 mph Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Del Monte Blvd.

Limits: Beach Rd. to Marina Greens Dr.

Direction: NB/SB



Factors

A. Prevailing Speed Data		
Location of Survey	s/o Cosky Dr.	
Date of Survey	5/15/2018	
Posted Speed Limit (mph)	40, not posted	
# Speed Data Collected	212	
85th Percentile (mph)	45	
10 mph Pace	35-44	
Percent in Pace	72%	



Average Daily Traffic (ADT) 7,134

Length of Segment (mi.) 0.51

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 17
Accident Rate (Acc/MVM) 2.57
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are multifamily residential.

Roadway Geometrics Two-lane roadway with double yellow center striping and raised medians immediately north of

Beach Road. Sidewalks are present on the east side only. The roundabout intersection at Beach Road provides the only crosswalks on the segment. Parking is generally allowed. The segment is

straight and flat.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

40 mph speed limit. Due to the **elevated collision rate**, and **for consistency with adjacent roadway segments**, a permitted 5 mph reduction to the 85th percentile speed was applied.

Speed limit should be posted on the segment.

Speed Limit Change? No

Existing Speed Limit: 40 mph Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Abdy

Survey Location

Street: Reservation Rd.

Limits: Dunes Dr. to Beach Rd.

Direction: EB/WB

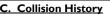


Factors

A. Prevailing Speed Data	
Location of Survey	e/o Cardoza Ave.
Date of Survey	5/15/2018
Posted Speed Limit (mph)	35
# Speed Data Collected	141
85th Percentile (mph)	36
10 mph Pace	27-36
Percent in Pace	54%

B. Traffic Factors

Average Daily Traffic (ADT)	9,400
Length of Segment (mi.)	0.34
Street Classification	Arterial



Date Range Covered	1/1/2013-12/31/2017

Total Accidents 24
Accident Rate (Acc/MVM) 4.12
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use	Adjacent land is generally undeveloped, with one park and one hotel.
-------------------	--

Roadway Geometrics Two-lane undivided roadway with double yellow center striping, bike lanes, and sidewalks.

Signalized intersections have left turn pockets and crosswalks. The segment features two

alternating horizontal curves west of Beach Rd.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

35 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 35 mph Recommended Speed Limit: 35 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Del Monte Blvd

Street: Reservation Rd.

Limits: Beach Rd. to Del Monte Blvd.

Direction: NB/SB



Factors

A. Prevailing Speed Data	
Location of Survey	w/o Del Monte Blvd.
Date of Survey	5/16/2018
Posted Speed Limit (mph)	35
# Speed Data Collected	194
85th Percentile (mph)	31
10 mph Pace	22-31
Percent in Pace	80%

B. Traffic Factors

9,007 Average Daily Traffic (ADT) Length of Segment (mi.) 0.59 Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017 **Total Accidents** 35 Accident Rate (Acc/MVM) 3.64 Statewide Average Accident Rate 1.37

Survey Location

Seaside Cir

Locke

D. Roadway Conditions

Adjacent Land Use Adjacent land is generally undeveloped, with one hotel north of Seaside Circle and parks and

residential uses south of Seaside Circle

Roadway Geometrics Two-lane undivided roadway with double yellow center striping and a section of painted median north of Seaside Ave. The segment includes bike lanes and sidewalks on both sides. There are

two roundabouts on the segment, and the signalized intersections at either end include left turn pockets and crosswalks. The segment features multiple horizontal and vertical curves.

Comments Results of the attached engineering & traffic survey information support reducing the speed limit

by 5 mph to 30 mph.

Speed Limit Change? Yes

Existing Speed Limit: 35 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Reservation Rd.

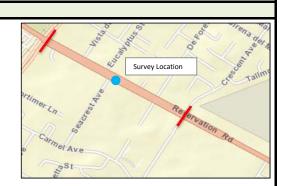
Limits: Del Monte Boulevard to Crescent Avenue

Direction: EB/WB



Factors

A. Prevailing Speed Data	
Location of Survey	e/o Seacrest Ave
Date of Survey	7/2/2019
Posted Speed Limit (mph)	35
# Speed Data Collected	224
85th Percentile (mph)	36
10 mph Pace	26-35
Percent in Pace	64%



B. Traffic Factors

Average Daily Traffic (ADT) 19,212
Length of Segment (mi.) 0.51
Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 94

Accident Rate (Acc/MVM) 5.3

Statewide Average Accident Rate 1.3

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are generally commercial, with some multifamily residential

Roadway Geometrics Four-lane roadway with raised medians. The segment includes bike lanes and sidewalks on both

sides. Intersections are generally signalized and include left turn pockets and crosswalks. Onstreet parking is allowed on intermittent portions of the segment. The segment is generally

straight and flat.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

35 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 35 mph Recommended Speed Limit: 35 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Reservation Rd.

A. Prevailing Speed Data

Limits: Crescent Avenue to California Avenue

Direction: EB/WB

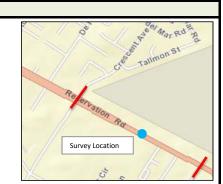


Factors

Location of Survey	w/o Ocean Terrace

Date of Survey 5/17/2018

Posted Speed Limit (mph) 40
Speed Data Collected 206
85th Percentile (mph) 47
10 mph Pace 36-45
Percent in Pace 56%



B. Traffic Factors

Average Daily Traffic (ADT) 18,650

Length of Segment (mi.) 0.44

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 49
Accident Rate (Acc/MVM) 3.25
Statewide Average Accident Rate 1.61

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are mixed commercial and residential.

Roadway Geometrics Four-lane roadway with two-way left turn lanes east of Crescent Ave. The segment includes bike

lanes and sidewalks on both sides, although there are a large gaps in the sidewalk on the north side. Intersections at either end are signalized and include left turn pockets and crosswalks. Onstreet parking is allowed on intermittent portions of the segment. The segment is generally

straight and flat.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

40 mph speed limit. Due to the **high collision rate**, a **permitted 5 mph reduction** to the

85th percentile speed was applied.

Speed Limit Change? No

Existing Speed Limit: 40 mph Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Reservation Rd.

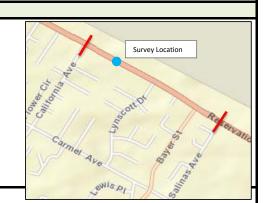
Limits: California Ave. to Salinas Ave.

Direction: EB/WB



Factors

. Prevailing Speed Data	
Location of Survey	e/o California Ave.
Date of Survey	5/17/2018
Posted Speed Limit (mph)	45
# Speed Data Collected	223
85th Percentile (mph)	51
10 mph Pace	40-49
Percent in Pace	68%



B. Traffic Factors

Average Daily Traffic (ADT)	15,951
Length of Segment (mi.)	0.44
Street Classification	Arterial

C. Collision History

Date Range Covered	1/1/2013-12/31/2017
Total Accidents	8
Accident Rate (Acc/MVM)	0.63
Statewide Average Accident Rate	1.61

D	Poodway	Conditions
υ.	noauway	Conditions

Adjacent Land Use	Adjacent land uses are residential on the south side and mixed commercial/industrial on the north	
	side.	
Roadway Geometrics	Four-lane undivided roadway with a two-way left turn lane, hike lanes, and sidewalks on both	

Four-lane undivided roadway with a two-way left turn lane, bike lanes, and sidewalks on both sides. The signalized intersection at California Avenue includes turn pockets and the only crosswalk on the segment. On-street parking is generally allowed. The segment features two gentle, alternating horizontal curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing 45 mph speed limit. The presence of bike lanes and the lack of pedestrian crossings east of California Avenue, in combination with bus stops on both sides of the roadway, suggest that increasing the speed limit would reduce pedestrian and bicycle safety, therefore, a

permitted 5 mph reduction to the 85th percentile speed was applied.

Speed Limit Change!	
---------------------	--

Existing Speed Limit: 45 mph **Recommended Speed Limit: 45 mph**

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Reservation Rd.

Limits: Salinas Ave. to Imjin Pkwy

Direction: EB/WB



Survey Location

Factors

A. Prevailing Speed Data	
Location of Survey	e/o Salinas Ave.
Date of Survey	5/18/2018
Posted Speed Limit (mph)	55
# Speed Data Collected	166
85th Percentile (mph)	50
10 mph Pace	38-47
Percent in Pace	57%



Average Daily Traffic (ADT) 16,333

Length of Segment (mi.) 0.76

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 15
Accident Rate (Acc/MVM) 0.66
Statewide Average Accident Rate 1.3

D. Roadway Conditions

Adjacent Land Use Adjacent land is undeveloped.

Roadway Geometrics Four-lane divided roadway with a raised median. The signalized intersection at Imjin Pkwy.

Provides left turn pockets and the only crosswalk on the segment. There is a bike path parallen to

the roadway on the south side. The segment is generally straight and flat.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

55 mph speed limit for consistency with the adjacent roadway segment to the east.

Speed Limit Change? No

Existing Speed Limit: 55 mph Recommended Speed Limit: 55 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Reservation Rd.

Limits: Imjin Pkwy to Blanco Rd.

Direction: EB/WB



Factors

А.	Prevai	ling	Speed	Data
		_		

Location of Survey w/o Mbest Dr.

Date of Survey 5/23/2018

Posted Speed Limit (mph)

Speed Data Collected

85th Percentile (mph)

10 mph Pace

Percent in Pace

72%



B. Traffic Factors

Average Daily Traffic (ADT) 31,930

Length of Segment (mi.) 0.63

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 50
Accident Rate (Acc/MVM) 1.36
Statewide Average Accident Rate 1.3

D. Roadway Conditions

Adjacent Land Use Adjacent land is undeveloped.

Roadway Geometrics Five-lane divided roadway with raised medians. Signalized intersections have turn pockets and

crosswalks. There is a bike path parallel to the roadway on the south side. The segment is

generally straight and flat.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

55 mph speed limit. A higher speed limit is not recommended on a segment with **closely spaced signalized intersections**, therefore, a **permitted 5 mph reduction** to the 8th percentile

speed was applied.

Speed Limit Change? No

Existing Speed Limit: 55 mph Recommended Speed Limit: 55 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: 8th St.

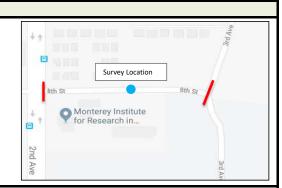
Limits: 2nd Ave. to 3rd Ave.

Direction: EB/WB



Factors

. Prevailing Speed Data	
Location of Survey	midpoint
Date of Survey	9/12/2018
Posted Speed Limit (mph)	35
# Speed Data Collected	35
85th Percentile (mph)	24
10 mph Pace	I
Percent in Pace	74%



B. Traffic Factors

281 Average Daily Traffic (ADT) Length of Segment (mi.) 0.16 Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents Accident Rate (Acc/MVM) 12.11 Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use The land adjacent to this roadway is residential to the north, university buildings to the south.

Two-lane undivided roadway with no striping. The segment currently includes a large gap, Roadway Geometrics surrounded by undeveloped land. There are sidewalks and bike lanes west of 3rd Ave., and all

intersections are unsignalized. The segment features multiple horizontal and vertical curves.

Comments Results of the attached engineering & traffic survey information support decreasing the posted

speed limit by 10 mph to 25 mph.

Speed Limit Change? Yes

Existing Speed Limit: 35 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: 8th St.

Limits: 5th Ave. to Inter-Garrison Rd.

Direction: EB/WB

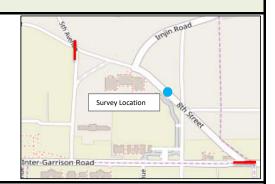


Factors

A. Prevailing Speed Date	t <u>a</u>
Location of Survey	
Date of Survey	

Date of Survey 5/18/2018
Posted Speed Limit (mph) Not posted

Speed Data Collected 107
85th Percentile (mph) 40
10 mph Pace 29-38
Percent in Pace 74%



B. Traffic Factors

Average Daily Traffic (ADT) 2,108
Length of Segment (mi.) 0.62
Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 4
Accident Rate (Acc/MVM) 1.67
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use The land adjacent to this roadway is generally undeveloped, with university student apartments

e/o Imjin Rd.

near Inter-Garrison Road.

Roadway Geometrics Two-lane roadway featuring double yellow striping. All intersections are unsignalized. The

segment features multiple horizontal and vertical curves.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

40 mph.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: 9th St.

Limits: Ist Ave. to 2nd Ave.

Direction: EB/WB



Factors

١.	Prevailing Speed Data	
	Location of Survey	e/o 1st Ave.
	Date of Survey	5/18/2018
	Posted Speed Limit (mph)	Not posted
	# Speed Data Collected	101
	85th Percentile (mph)	31
	10 mph Pace	20-29
	Percent in Pace	75%

B. Traffic Factors

Average Daily Traffic (ADT) 779

Length of Segment (mi.) 0.3 I

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 4
Accident Rate (Acc/MVM) 9.22
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is generally multifamily residential.

Roadway Geometrics

Two-lane roadway with double yellow striping, bike lanes, and sidewalks along most of the segment. The segment includes a roundabout, with side streets still under construction. There are crosswalks at the roundabout and at 2nd Street. The intersection at 2nd St. includes left turn

pockets. Parking is allowed intermittently. The land along the west half of the segment is currently

Survey Location

under development. The segment features alternating horizontal and vertical curves.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

30 mph.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: 2nd Ave.

Limits: Divarty Street to 8th Street

Direction: NB/SB



Survey Location

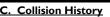
5th St

Factors Prevailing Speed Data

١.	A. Prevailing Speed Data		
	Location of Survey	n/o 6th St.	
	Date of Survey	5/22/2018	
	Posted Speed Limit (mph)	35	
	# Speed Data Collected	126	
	85th Percentile (mph)	44	
	10 mph Pace	32-41	
	Percent in Pace	78%	



Average Daily Traffic (ADT) 3,990 Length of Segment (mi.) 0.59 Street Classification Arterial



Date Range Covered 1/1/2013-12/31/2017

ī **Total Accidents** Accident Rate (Acc/MVM) 0.23 Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are undeveloped/disused barracks on the west side of the roadway and partly

developed university land.

Two-to-four-lane divided roadway with raised medians, bike lanes, and intermittent sidewalks. Roadway Geometrics

There is a parallel bike path on the east side of the roadway. Intersections are all unsignalized,

with left turn pockets and crosswalks. The segment includes multiple vertical curves.

Comments Results of the attached engineering & traffic survey information support increasing the posted

speed limit by 10 mph to 45 mph.

Speed Limit Change? Yes

Existing Speed Limit: 35 mph Recommended Speed Limit: 45 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: 2nd Ave.

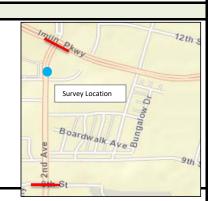
Limits: 8th Street to Imjin Parkway

Direction: NB/SB



Factors	
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A. Prevailing Speed Data			
Location of Survey	n/o General Stilwell Dr.		
Date of Survey	7/2/2019		
Posted Speed Limit (mph)	35		
# Speed Data Collected	150		
85th Percentile (mph)	32		
10 mph Pace	23-32		
Percent in Pace	81%		



B. Traffic Factors

Average Daily Traffic (ADT) 16,975

Length of Segment (mi.) 0.45

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017
Total Accidents 22

Accident Rate (Acc/MVM) 1.58
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are mixed, with multifamily residential, commercial, and undeveloped land.

Roadway Geometrics Two-to-four-lane divided roadway with raised medians, bike lanes, and intermittent sidewalks.

There is a parallel bike path on the east side of the roadway. The intersections of Imjin Pkwy. And General Stilwell Dr., are signalized, with left turn pockets and crosswalks at all signalized and unsignalized intersections. The segment includes one horizontal curve north of General Stilwell

Dr. and multiple vertical curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

35 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 35 mph Recommended Speed Limit: 35 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Beach Rd.

Limits: Reservation Rd. to Del Monte Blvd.

Direction: EB/WB



Del Monte Blyg

Survey Location

Seaside Cir

Factors

. Prevailing Speed Data			
Location of Survey	w/o Marina Dr		
Date of Survey	5/15/2018		
Posted Speed Limit (mph)	35, no sign		
# Speed Data Collected	170		
85th Percentile (mph)	34		
10 mph Pace	24-33		
Percent in Pace	72%		



Average Daily Traffic (ADT) 5,611
Length of Segment (mi.) 0.27
Street Classification Arterial



Date Range Covered 1/1/2013-12/31/2017

Total Accidents 29
Accident Rate (Acc/MVM) 10.56
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are mixed commercial and single family residentiali.

Roadway Geometrics Two-lane undivided road with double yellow striping, bike lanes, and intermittent sidewalks.

There is a bike path parallel to the roadway on the south side. There is a signalized intersection with left turn pockets at Del Monte Blvd. and a roundabout at Del Monte Blvd, both of which provide crosswalks. The roadway width varies widely. The segment features two alternating

horizontal curves and a steady incline.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

35 mph speed limit. Speed limit should be posted on the segment.

Speed Limit Change? No

Existing Speed Limit: 35 mph Recommended Speed Limit: 35 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: De Forest Rd.

Limits: Beach Rd. to Reservation Rd.

Direction: NB/SB



Beach

Factors

A. Prevailing Speed Data		
	Location of Survey	n/o Oak Cir.
	Date of Survey	5/16/2018
	Posted Speed Limit (mph)	25
	# Speed Data Collected	113
	85th Percentile (mph)	35
	10 mph Pace	25-34
	Percent in Pace	81%

B. Traffic Factors

Average Daily Traffic (ADT)

Length of Segment (mi.)

Street Classification

1,861

0.87

Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 13

Accident Rate (Acc/MVM) 4.42

Statewide Average Accident Rate 1.37

Survey Location Survey Location

D. Roadway Conditions

Adjacent Land Use Adjacent land use is single family residential.

Roadway Geometrics Two-lane undivided roadway, generally with no centerline, and with sidewalks on both sides.

There is one signal at Reservation Road, which includes left turn pockets and crosswalk. There is

an enhanced visibility crosswalk at Windyhill Park on the north end of the segment. On-street

parking is generally allowed. The segment features multiple vertical curves.

Comments Results of the attached engineering & traffic survey information support increasing the posted

speed limit by 5 mph to 30 mph. The **high collision rate** and **residential driveway density** indicate that further increases may be unsafe, therefore, a permitted 5 mph reduction to the 85th

percentile speed was applied.

Speed Limit Change? Yes

Existing Speed Limit: 25 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Crescent Ave.

Limits: Quebrada Del Mar to Reservation Rd.

Direction: NB/SB



Factors

١.	Prevailing Speed Data	
	Location of Survey	n/o Whitney Pl.
	Date of Survey	5/16/2018
	Posted Speed Limit (mph)	25
	# Speed Data Collected	116
	85th Percentile (mph)	31
	10 mph Pace	25-34
	Percent in Pace	84%

B. Traffic Factors

Average Daily Traffic (ADT)

Length of Segment (mi.)

Street Classification

1,081

0.45

Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 5
Accident Rate (Acc/MVM) 5.62
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is single family residential.

Roadway Geometrics

Two-lane undivided roadway with double yellow striping, bike lanes, and sidewalks on both sides.

There is a signal with left turn pockets and crosswalks at Reservation Road and traffic circles at local cross streets on the northern portion of the segment. On-street parking is generally

allowed. The segment features multiple horizontal and vertical curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

posted speed limit of 25 mph. The vertical curves on the roadway produce constrained sight lines near residential driveways and intersections, therefore, a permitted 5 mph

reduction to the 85th percentile speed was applied.

Speed Limit Change? No

Existing Speed Limit: 25 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Crescent Ave.

Limits: Reservation Rd. to Carmel Ave.

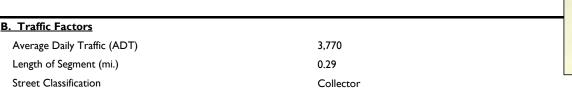
Direction: NB/SB



Survey Location

Factors

١.	Prevailing Speed Data	
	Location of Survey	midpoint
	Date of Survey	5/17/2018
	Posted Speed Limit (mph)	30
	# Speed Data Collected	130
	85th Percentile (mph)	34
	10 mph Pace	26-35
	Percent in Pace	82%



C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 13

Accident Rate (Acc/MVM) 6.51

Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is multifamily residential.

Roadway Geometrics

Two-lane undivided roadway with double yellow striping, bike lanes, and sidewalks on both sides.

There is a signal with left turn pockets at Reservation Road and an unsignalized intersection at

Carmel Avenue. Crosswalks are provided on both ends of the segment. On-street parking is generally allowed. The segment features one crest vertical curve south of Carmel Avenue. Immediately south of Reservation Road, the west curb line extends out, creating an obstruction

and varying roadway width.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

30 mph speed limit. Safety concerns based on **varying roadway width** and the **high collision rate**, as well as **residential driveway density**, indicate that an increases may be unsafe, therefore, a permitted 5 mh reduction to the 85th percentile speed was applied.

Speed Limit Change? No

Existing Speed Limit: 30 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Cardoza Ave.

Limits: Reservation Rd. to Aaron Way (End)

Direction: NB/SB

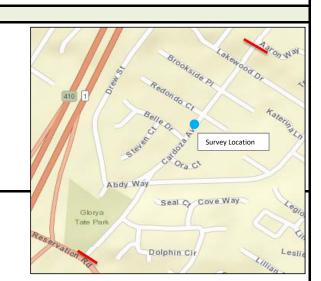


Factors

A. Prevailing Speed Data		
Location of Survey	s/o Redondo Ct.	
Date of Survey	5/15/2018	
Posted Speed Limit (mph)	30	
# Speed Data Collected	123	
85th Percentile (mph)	35	
10 mph Pace	24-33	
Percent in Pace	59%	

B. Traffic Factors

948 Average Daily Traffic (ADT) Length of Segment (mi.) 0.46 Street Classification Collector



C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents Accident Rate (Acc/MVM) 3.73 1.37 Statewide Average Accident Rate

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are single family residential, with one park.

Roadway Geometrics Two-lane undivided roadway with dashed yellow striping north of Abdny Way, and a painted median with turn pockets south of Abdy Way. There are sidewalks on both sides, and parking is

generally allowed north of Abdy Way. Crosswalks are provided at the signalized intersection at Reservation Road and the two-way stop controlled intersection at Abdy Way. The segment

features slight horizontal and vertical curves.

Results of the attached engineering & traffic survey information support maintaining the existing Comments

> 30 mph speed limit. The constrained sight lines at the intersection at Abdy Way would be more hazardous at higher speeds on the uncontrolled approaches, therefore, a permitted 5 mph reduction to the 85th percentile speed was applied.

Speed Limit Change? No

Existing Speed Limit: 30 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Beach Rd.

Limits: Del Monte Blvd. to De Forest Rd.

Direction: EB/WB



Factors

Α.

. Prevailing Speed Data	
Location of Survey	w/o Fizgerald (
Date of Survey	5/15/2018
Posted Speed Limit (mph)	30
# Speed Data Collected	115
85th Percentile (mph)	35
10 mph Pace	26-35
Percent in Pace	73%



B. Traffic Factors

Average Daily Traffic (ADT) 3,009

Length of Segment (mi.) 0.52

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 21
Accident Rate (Acc/MVM) 7.29
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are residential, with one elementary school and a church.

Roadway Geometrics Two-lane undivided roadway with dashed yellow striping and sidewalks on both sides. Crosswalks

are provided at the roundabout intersection at Del Monte Boulevard and surrounding the elementary school. Parking is generally allowed. The segment is generally straight and flat, with

one horizontal curve east of Fitzgerald Circle.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

30 mph speed limit. The **high collision rate** and **driveway density** indicate that further increases may be unsafe, therefore, a **permitted 5 mph reduction** to the 85th percentile speed

was applied.

Speed Limit Change? No

Existing Speed Limit: 30 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: California Ave.

Limits: Reservation Rd. to Carmel Ave.

Direction: NB/SB



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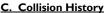
١.	Prevailing Speed Data	
	Location of Survey	s/o Exeter Pl.
	Date of Survey	5/17/2018
	Posted Speed Limit (mph)	35
	# Speed Data Collected	140
	85th Percentile (mph)	40
	10 mph Pace	30-39
	Percent in Pace	69%



Average Daily Traffic (ADT) 4,116

Length of Segment (mi.) 0.29

Street Classification Collector



Date Range Covered 1/1/2013-12/31/2017

Total Accidents 6
Accident Rate (Acc/MVM) 2.75
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are generally residential, with none fronting California Avenue.

Roadway Geometrics Two-lane undivided roadway with double yellow striping, sidewalks, and bike lanes. High-visibility

crosswalks are provided at the signalized intersection at Reservation Road and the all-way stop controlled intersection at Carmel Avenue. Parking is allowed intermittently. The segment is

generally straight, with multiple gentle vertical curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

35 mph speed limit. Due to the high collision rate, a permitted 5 mph reduction to the

85th percentile speed was applied.

Speed Limit Change? No

Existing Speed Limit: 35 mph Recommended Speed Limit: 35 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: California Ave.

Limits: Carmel Ave. to Reindollar Ave.

Direction: NB/SB



га	ctors
Δ	Prevailing Speed Data

١.	. Prevailing Speed Data		
	Location of Survey	s/o Tamara Ct.	
	Date of Survey	5/17/2018	
	Posted Speed Limit (mph)	30	
	# Speed Data Collected	147	
	85th Percentile (mph)	26	
	10 mph Pace	17-26	
	Percent in Pace	82%	



B. Traffic Factors

Average Daily Traffic (ADT) 4,180

Length of Segment (mi.) 0.23

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 5
Accident Rate (Acc/MVM) 2.87
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are generally residential, with none fronting California Avenue.

Roadway Geometrics Two-lane undivided roadway with double yellow striping, sidewalks, and bike lanes. The

unsignalized intersections on either end of the segment include turn pockets and provide crosswalks. Minimal parking is permitted. The segment features multiple horizontal and vertical

curves, and the road width varies widely.

Comments Results of the attached engineering & traffic survey information support reducing the posted

speed limit by 5 mph to 25 mph, in accordance with the 85th percentile speed of 26 mph and low

10-mph pace.

Speed Limit Change? Yes

Existing Speed Limit: 30 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: California Ave.

Limits: Reindollar Ave. to Imjin Pkwy

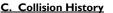
Direction: NB/SB



١.	Prevailing Speed Data	
	Location of Survey	s/o 3rd Ave.
	Date of Survey	5/22/2018
	Posted Speed Limit (mph)	35
	# Speed Data Collected	146
	85th Percentile (mph)	44
	10 mph Pace	34-43
	Percent in Pace	75%

B. Traffic Factors

Average Daily Traffic (ADT) 6,041 Length of Segment (mi.) 0.69 Street Classification Arterial



Date Range Covered 1/1/2013-12/31/2017

Total Accidents 14 Accident Rate (Acc/MVM) 1.84 1.37 Statewide Average Accident Rate

D. Roadway Conditions

Adjacent Land Use Adjacent land is generally undeveloped.

Roadway Geometrics Two-lane undivided roadway with double yellow striping and bike lanes. Sidewalks are provided

on the west side of the road. Crosswalks are provided at the intersections on either end of the segment. There is one signalized intersection at Imjin Parkway. The segment features multiple

Pendreton Sy

Survey Location

horizontal and vertical curves.

Comments Results of the attached engineering & traffic survey information support increasing the posted

> speed limit by 5 mph to 40 mph. The elevated collision rate and presence of bicyle lanes a indicate that further increases may be unsafe, therefore, a permitted 5 mph reduction was

applied to the 85th percentile speed.

Speed Limit Change? Yes

Existing Speed Limit: 35 mph Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: California Ave.

Limits: Imjin Pkwy to 8th Street

Direction: NB/SB



Factors

١.	. Prevailing Speed Data		
	Location of Survey	s/o Imjin Pkwy.	
	Date of Survey	6/27/2018	
	Posted Speed Limit (mph)	Not posted	
	# Speed Data Collected	87	
	85th Percentile (mph)	29	
	10 mph Pace	20-29	
	Percent in Pace	76%	

B. Traffic Factors

Average Daily Traffic (ADT) 659

Length of Segment (mi.) 0.49

Street Classification Arterial

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 2

Accident Rate (Acc/MVM) 3.4

Statewide Average Accident Rate 1.37



D. Roadway Conditions

Adjacent Land Use Adjacent land is generally undeveloped or agricultural.

Roadway Geometrics Two-lane undivided roadway that is generally unstriped. There is one signalized intersection at

Imjin Parkway, which provides the only crosswalks. The segment features multiple horizontal and

vertical curves.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

30 mph.

Speed Limit Change?	NA
opeca Emili Change.	117

Existing Speed Limit: Not posted Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Reindollar Ave.

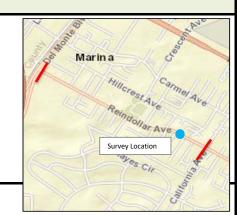
Limits: Del Monte Blvd. to California Ave.

Direction: EB/WB



Factors

A. Prevailing Speed Data	
Location of Survey	e/o Kennedy Ct.
Date of Survey	5/17/2018
Posted Speed Limit (mph)	25
# Speed Data Collected	143
85th Percentile (mph)	23
10 mph Pace	15-24
Percent in Pace	80%



B. Traffic Factors

Average Daily Traffic (ADT) 2,346

Length of Segment (mi.) 0.92

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 28

Accident Rate (Acc/MVM) 7.12

Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are a combination of single and multifamily residential, with commercial near

Del Monte Boulevard.

Roadway Geometrics Two-lane undivided roadway with double yellow striping and intermittent sidewalks on both

sides. There is one signalized intersection with turn pockets at Del Monte Boulevard. Crosswalks are provided at multiple intersections and include school crossings. Parking is generally allowed. The segment features multiple vertical curves and alternating horizontal curves east of Vaughn

Avenue.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

25 mph speed limit.

Speed Limit Change? No

Existing Speed Limit: 25 Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Reindollar Ave./Bostick Ave.

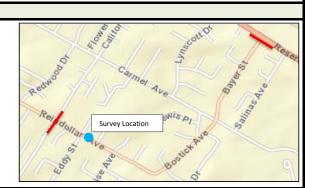
Limits: California Ave. to Carmel Ave.

Direction: EB/WB



Factors

. Prevailing Speed Data	
Location of Survey	e/o Eddy Cir.
Date of Survey	5/17/2018
Posted Speed Limit (mph)	25, no sign
# Speed Data Collected	117
85th Percentile (mph)	30
10 mph Pace	21-30
Percent in Pace	67%



B. Traffic Factors

Average Daily Traffic (ADT) 2,551

Length of Segment (mi.) 0.55

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 4
Accident Rate (Acc/MVM) 1.56
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is single family residential.

Roadway Geometrics Two-lane undivided roadway with double yellow striping and sidewalks on both sides, with some gaps. Crosswalks are provided at California Avenue and Sunrise Avenue. All intersections are

unsignalized. Parking is generally allowed. The segment features multiple horizontal curves east of Mildred Court. East of Mildred Court, the roadway turns and becomes Bostick Avenue.

Comments Results of the attached engineering & traffic survey information support increasing the established

speed limit by 5 mph to 30 mph. Speed limit should be posted on the segment.

Speed Limit Change? No

Existing Speed Limit: 25 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Carmel Ave.

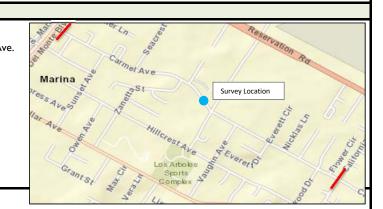
Limits: Del Monte Blvd. to California Ave.

Direction: EB/WB



Factors

١.	Prevailing Speed Data			
	Location of Survey	w/o Crescent Av		
	Date of Survey	5/16/2018		
	Posted Speed Limit (mph)	25		
	# Speed Data Collected	137		
	85th Percentile (mph)	31		
	10 mph Pace	22-31		
	Percent in Pace	67%		



B. Traffic Factors

Average Daily Traffic (ADT) 4,774

Length of Segment (mi.) 0.76

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 55
Accident Rate (Acc/MVM) 8.35
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are a combination of single and multifamily residential, with some commercial

and one elementary school.

Roadway Geometrics Two-lane undivided roadway with double yellow striping and intermittent sidewalks on both

sides. There are multiple all-way stop controlled intersections, some with turn pockets. There are frequent, high-visibility crosswalks near the elementary school. Parking is generally allowed. The

segment features multiple horizontal curves and gentle vertical curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

25 mph speed limit. The **high collision rate**, **varying roadway geometry**, and **residential driveway density** indicate that an increase may be unsafe, therefore, a **permitted 5 mph**

reduction was applied to the 85th percentile speed.

Speed Limit Change?

Existing Speed Limit: 25 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Carmel Ave.

Limits: California Ave. to Salinas Ave.

Direction: EB/WB



Factors

4	. Prevailing Speed Data	
	Location of Survey	w/o Barrett Ln.
	Date of Survey	5/18/2018
	Posted Speed Limit (mph)	25, no sign
	# Speed Data Collected	45
	85th Percentile (mph)	27
	10 mph Pace	17-26
	Percent in Pace	67%



B. Traffic Factors

Average Daily Traffic (ADT) 870

Length of Segment (mi.) 0.44

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 13

Accident Rate (Acc/MVM) 18.8

Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is single family residential.

Roadway Geometrics Two-lane undivided roadway with double yellow striping and intermittent sidewalks on both

sides. There are multiple all-way stop controlled intersections, with turn pockets at California Avenue. There are frequent, high-visibility crosswalks near the elementary school. Parking is

generally allowed. The segment features multiple vertical curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

25 mph speed limit. Speed limit should be posted on the segment.

Speed Limit Change? No

Existing Speed Limit: 25 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel

Street: Salinas Ave.

Limits: Carmel Ave. to Reservation Rd.

Direction: NB/SB



Factors

A. Prevailing Speed Data		J Re
Location of Survey	n/o Ellis Ct.	Edna & des
Date of Survey	5/18/2018	3°C1 74
Posted Speed Limit (mph)	25	3, //
# Speed Data Collected	17	Op.
85th Percentile (mph)	26	6110 00
10 mph Pace	18	A STATE OF THE STA
Percent in Pace	76%	// 5
B Traffic Factors		1 7 1

B. Traffic Factors

Average Daily Traffic (ADT)	303
Length of Segment (mi.)	0.27
Street Classification	Local

C. Collision History

Date Range Covered	1/1/2013-12/31/2017
Total Accidents	0
Accident Rate (Acc/MVM)	0
Statewide Average Accident Rate	1.37

D. Roadway Conditions

Adjacent Land Use	Adjacent land uses are single family residential on the west side and undeveloped on the right	
	side.	

Roadway Geometrics Two-lane undivided roadway with no striping and intermittent sidewalks. There is one all-way

stop controlled intersection at Ellis Court. Parking is generally allowed on the west side of the

road. The segment features multiple vertical curves.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

25 mph speed limit.

Speed Limit Change?	No
Speed Little Change.	140

Existing Speed Limit: 25 mph Reco	ommended Speed Limit: 25 mph
-----------------------------------	------------------------------

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Paul Davis Dr.

Limits: Healy Ave. to Marina Greens Dr.

Direction: NB/SB



Factors

A. Prevailing Speed Data	
Location of Survey	midpoint
Date of Survey	5/15/2018
Posted Speed Limit (mph)	Not posted
# Speed Data Collected	78
85th Percentile (mph)	30
10 mph Pace	20-29
Percent in Pace	72%

B. Traffic Factors

Average Daily Traffic (ADT) 712

Length of Segment (mi.) 0.21

Street Classification Collector



C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 4
Accident Rate (Acc/MVM) 14.41
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is light industrial.

Roadway Geometrics Two-lane undivided roadway with no striping and sidewalks on both sides. There is one stop-

controlled intersection at Healy Avenue. Parking is generally allowed. The segment features

multiple gentle horizontal and vertical curves.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

30 mph.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Kingel



Street: Patton Pkwy.

Limits: Marina High School to California Ave.

Direction: EB/WE



Factors

A. Prevailing Speed Data	
Location of Survey	w/o Patton Pkwy.
Date of Survey	5/23/2018
Posted Speed Limit (mph)	25
# Speed Data Collected	49
85th Percentile (mph)	45
10 mph Pace	30-39
Percent in Pace	65%



Average Daily Traffic (ADT) 658
Length of Segment (mi.) 0.47
Street Classification Collector



Date Range Covered 1/1/2013-12/31/2017

Total Accidents 2
Accident Rate (Acc/MVM) 3.58
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land is undeveloped, with one high school. Single-family residential is located to the

north and accessed via side streets.

Roadway Geometrics Two-lane undivided roadway with dashed yellow striping and sidewalks on the south side only.

There is a stop controlled intersection at California Avenue, and crosswalks are provided at all intersections. Parking is prohibited. There is a bike path running parallel to the road on the nort

Survey Location

3rd Ave

side. The segment features multiple gentle vertical curves.

Comments Results of the attached engineering & traffic survey information support increasing the posted

speed limit by 15 mph to 40 mph. The **high collision rate** indicates that further increases may be unsafe, therefore, a **permitted 5 mph reduction** was applied to the 85th percentile speed.

Speed Limit Change? Yes

Existing Speed Limit: 25 mph Recommended Speed Limit: 40 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Crescent St.

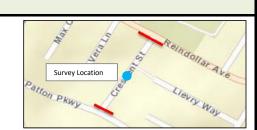
Limits: Patton Pkwy. to Reindollar Ave.

Direction: NB/SB



Factors

١.	Prevailing Speed Data	
	Location of Survey	midpoint
	Date of Survey	5/17/2018
	Posted Speed Limit (mph)	Not posted
	# Speed Data Collected	119
	85th Percentile (mph)	31
	10 mph Pace	23-32
	Percent in Pace	78%



B. Traffic Factors

Average Daily Traffic (ADT)

Length of Segment (mi.)

Street Classification

I,166

0.14

Collector

C. Collision History

 Date Range Covered
 1/1/2013-12/31/2017

 Total Accidents
 4

 Accident Rate (Acc/MVM)
 13.8

D. Roadway Conditions

Statewide Average Accident Rate

Adjacent Land Use Adjacent land use is single family residential.

Roadway Geometrics Two-lane undivided roadway with no striping and sidewalks on both sides. There are unsignalized

intersections at either end of the segment with school crosswalks. Parking is generally allowed.

The segment features very gentle horizontal and vertical curves.

Comments Results of the attached engineering & traffic survey information and residential driveway

density support establishing a speed limit of 25 mph.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

1.37

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Vaughn Ave.

Limits: Reindollar Ave. to Carmel Ave.

Direction: NB/SB



Survey Location

Los Arboles Sports Complex

Reindollar Ave

Factors

A. Prevailing Speed Data	
Location of Survey	n/o Hillcrest Ave.
Date of Survey	5/17/2018
Posted Speed Limit (mph)	Not posted
# Speed Data Collected	96
85th Percentile (mph)	29
10 mph Pace	21-30
Percent in Pace	73%



Average Daily Traffic (ADT) I,033

Length of Segment (mi.) 0.28

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 4
Accident Rate (Acc/MVM) 7.46
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is single family residential.

Roadway Geometrics Undivided two-lane roadway with no striping and sidewalks on both sides. There are stop

controlled intersections and school crosswalks. Parking is generally allowed. The segment is

generally straight and flat.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

25 mph. The **high collision rate** and **residential driveway density** indicate that a higher speed limit may be unsafe, therefore, a **permitted 5 mph reduction** was applied to the 85th

percentile speed.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Seacrest Ave.

Limits: Carmel Ave. to Reservation Rd.

Direction: NB/SB



Factors

a. Prevailing Speed Data	
Location of Survey	n/o Carmel Ave.
Date of Survey	5/16/2018
Posted Speed Limit (mph)	Not posted
# Speed Data Collected	139
85th Percentile (mph)	33
10 mph Pace	24-33
Percent in Pace	73%

B. Traffic Factors

Average Daily Traffic (ADT) 4,666

Length of Segment (mi.) 0.29

Street Classification Collector



C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 14
Accident Rate (Acc/MVM) 5.76
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are multifamily residential and commercial.

Roadway Geometrics

Two-lane undivided roadway with double yellow striping and sidewalks on both sides. There is a signalized intersection at Reservation Road and all-way stop control at Carmel Avenue, both with

 $turn\ pockets\ and\ crosswalks.\ Parking\ is\ generally\ allowed.\ The\ segment\ is\ generally\ straight\ and$

flat.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

30 mph. The **high collision rate** and **residential driveway density** indicate that a higher speed limit may be unsafe, therefore, a **permitted 5 mph reduction** was applied to the 85th

percentile speed.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Sunset Ave.

Limits: Reindollar Ave. to Carmel Ave.

Direction: NB/SB



Factors

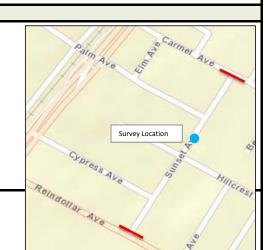
. Prevailing Speed Data	
Location of Survey	s/o Palm Ave.
Date of Survey	5/16/2018
Posted Speed Limit (mph)	Not posted
# Speed Data Collected	140
85th Percentile (mph)	30
10 mph Pace	21-30
Percent in Pace	79%



Average Daily Traffic (ADT) 3,774

Length of Segment (mi.) 0.28

Street Classification Collector



C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 16
Accident Rate (Acc/MVM) 8.21
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are single and multifamily residential.

Roadway Geometrics Two-lane undivided roadway with no striping and sidewalks on both sides. There are multiple

unsignalized intersections, with turn pockets and crosswalks at Hillcrest Avenue and Reindollar

Avenue. Parking is generally allowed. The segment features multiple vertical curves.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

25 mph. The **high collision rate**, **residential driveway density**, and **high pedestrian volumes** (mostly children) indicate that a higher speed limit may be unsafe, therefore, a

permitted 5 mph reduction was applied to the 85th percentile speed.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Lake Dr.

Limits: Palm Ave. to Reservation Rd.

Direction: NB/SB



Survey Location

Factors

A. Prevailing Speed Data	
Location of Survey	s/o Messinger Dr.
Date of Survey	5/16/2018
Posted Speed Limit (mph)	Not posted
# Speed Data Collected	122
85th Percentile (mph)	30
10 mph Pace	20-29
Percent in Pace	57%

B. Traffic Factors

Average Daily Traffic (ADT) I,474

Length of Segment (mi.) 0.39

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 13
Accident Rate (Acc/MVM) 12.31
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land uses are single and multifamily residential.

Roadway Geometrics Two-lane undivided roadway with no striping and sidewalks on both sides, with some sidewalk

gaps on the north end of the segment. There are unsignalized intersections and one roundabout at Reservation Road/Robin Drive. Sidewalks are provided at either end of the segment, and parking is generally allowed. The segment features multiple horizontal and vertical curves.

Comments Results of attached engineering & traffic survey information support establishing a speed limit of

30 mph.

Speed Limit Change?

Existing Speed Limit: Not posted Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Palm Ave.

Limits: Lake Dr. to Del Monte Blvd.

Direction: EB/WB



Factors

Prevailing Speed Data	
Location of Survey	w/o Marina Dr.
Date of Survey	5/16/2018
Posted Speed Limit (mph)	25, no sign
# Speed Data Collected	130
85th Percentile (mph)	26
10 mph Pace	17-26
Percent in Pace	78%

B. Traffic Factors

Average Daily Traffic (ADT) 3,549

Length of Segment (mi.) 0.18

Street Classification Collector



Date Range Covered 1/1/2013-12/31/2017

Total Accidents 12
Accident Rate (Acc/MVM) 10.2
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Ajacent land use is multifamily residential.

Roadway Geometrics Two-lane undivided roadway with no striping and sidewalks on both sides. There is one signalized

intersection with turn pockets and two unsignalized intersections, all with high-visibility school crosswalks. Parking is generally allowed. The segment features multiple vertical curves and one

Survey Location

slight horizontal curve near Del Monte Boulevard.

Comments Results of the attached engineering & traffic survey information support maintaining the existing

25 mph speed limit. Speed limit should be posted on the segment.

Speed Limit Change? No

Existing Speed Limit: 25 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



Street: Abrams Dr.

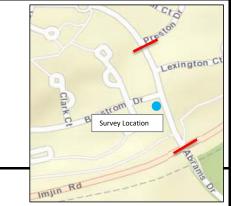
Limits: Preston Dr. to Imjin Pkwy

Direction: NB/SB



Factors

Δ.	Prevailing Speed Data	
	Location of Survey	s/o Brostrom Dr.
	Date of Survey	5/28/2018
	Posted Speed Limit (mph)	30
	# Speed Data Collected	105
	85th Percentile (mph)	35
	10 mph Pace	27-36
	Percent in Pace	84%



B. Traffic Factors

Average Daily Traffic (ADT) 3,066

Length of Segment (mi.) 0.17

Street Classification Collector

C. Collision History

Date Range Covered	1/1/2013-12/31/2017			
Total Accidents	5			
Accident Rate (Acc/MVM)	5.24			
Statewide Average Accident Rate	1.37			

η.	Poadw	ay Can	ditions
υ.	noauw	ay Con	aitions

Comments

- · · · · · · · · · · · · · · · · · · ·	
Adjacent Land Use	Adjacent land is undeveloped. Surrounding land uses are generally residential, accessed via side
	straats

Roadway Geometrics

Two-lane undivided roadway with double yellow striping and sidewalks on both sides. There is a signalized intersection with crosswalks at Imjin Parkway. Parking is prohibited. The segment features multiple horizontal and vertical curves, and the roadway width varies widely.

Results of the attached engineering & traffic survey information support maintaining the existing 30 mph speed limit for consistency with adjacent roadway segments. The high collision rate and varying roadway geometry also indicate that an increase may be unsafe, therefore, a permitted 5 mph reduction was applied to the 85th percentile speed. Speed limit should be posted on the segment.

Speed Limit Change?	N

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel

Existing Speed Limit: 30 mph

Title: Vice President, TJKM Transportation Consultants

Recommended Speed Limit: 30 mph

ATROLO

Street: Preston Dr.

Limits: Abrams Dr. to Imjin Pkwy

Direction: EB/WB



Brown Ct

Survey Location

Factors

Α.

. Prevailing Speed Data	
Location of Survey	s/o Landrum Ct.
Date of Survey	5/18/2018
Posted Speed Limit (mph)	25
# Speed Data Collected	113
85th Percentile (mph)	34
10 mph Pace	25-34
Percent in Pace	81%

B. Traffic Factors

Average Daily Traffic (ADT) 1,708

Length of Segment (mi.) 0.61

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents 4
Accident Rate (Acc/MVM) 2.1
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land is generally undeveloped, with one park.

Roadway Geometrics

Two-lane undivided roadway with double yellow striping and sidewalks on both sides. There is a signalized intersection with turn pockets and crosswalks at Imjin Parkway. There are no marked

crosswalks connecting to Preston Park or side streets. Parking is prohibited. The segment

Di

features multiple horizontal and vertical curves.

Comments Results of the attached engineering & traffic survey information support increasing the posted

speed limit by 5 mph to 30 mph. The **high collision rate** and lack of any marked pedestrian **crossings** indicate that a further increase may be unsafe, therefore, a **permitted 5 mph**

reduction was applied to the 85th percentile speed.

Speed Limit Change? Yes

Existing Speed Limit: 25 mph Recommended Speed Limit: 30 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel



8th

Street: 3rd Ave.

Limits: Imjin Pkwy to 8th Street

Direction: NB/SB



Factors

a. Prevailing Speed Data	
Location of Survey	n/o 10th St.
Date of Survey	5/18/2018
Posted Speed Limit (mph)	25
# Speed Data Collected	64
85th Percentile (mph)	31
10 mph Pace	20-29
Percent in Pace	78%

B. Traffic Factors

Average Daily Traffic (ADT) I,003

Length of Segment (mi.) 0.37

Street Classification Collector

C. Collision History

Date Range Covered 1/1/2013-12/31/2017

Total Accidents I
Accident Rate (Acc/MVM) 1.48
Statewide Average Accident Rate 1.37

D. Roadway Conditions

Adjacent Land Use Adjacent land use is single family residential, although none fronts Imjin Parkway directly.

Roadway Geometrics Two-lane undivided roadway with partial double yellow striping and sidewalks on both sides. All

intersections are unsignalized. There are turn pockets at Imjin Parkway and multiple crosswalks.

way Imjin Parkway .

Survey Location

9th Street

Parking is allowed intermittently. The segment is generally straight and flat.

Comments Results of the attached engineering & traffic survey information support maintaining the exiting 25

mph speed limit. Increasing **on-street parking** and congestion **constrain sight lines** and add to hazards for bicyclists on this **designated bicycle route**. Therefore, a **permitted 5 mph**

reduction was applied to the 85th percentile speed.

Speed Limit Change? No

Existing Speed Limit: 25 mph Recommended Speed Limit: 25 mph

This survey conforms to Section 627 and 40802 of the California Vehicle Code and Section 2B.13 of the California MUTCD and recommenc speed limit appropriate to facilitate the safe and orderly movement of traffic.

Approved and Authorized for release by The City of Marina Public Works:

Signed: Chris D. Kinzel, PE

Chris D. Knizel





APPENDIX B SPEED SURVEY DATA COLLECTION FORMS

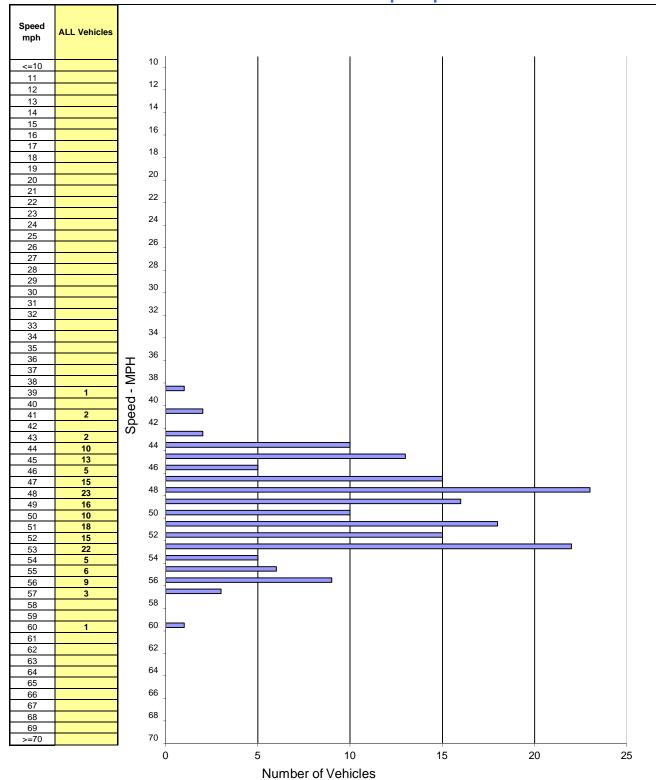
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 1 - Imjin Pkwy 400' W/O 3rd Ave

TIME: 09:00-10:00 Posted Speed: 45 MPH Clear/Dry Project #: 18-8263-001

Eastbound & Westbound Spot Speeds



SPEED PARAMETERS 10 MPH 50th 85th Percent in Count Range Percentile Percentile Pace Pace % / # Below Pace % / # Above Pace 176 39 - 60 50 mph 53 mph 44 - 53 147 2% / 5 14% / 24

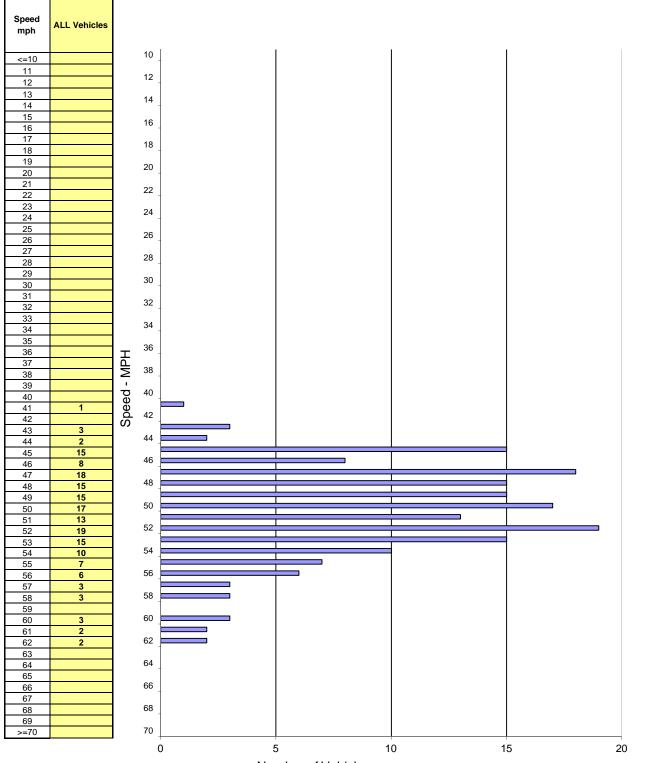
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/22/2018 Location: 2 - Imjin Pkwy 175' E/O Marine Heights

TIME: 11:20-11:54 Posted Speed: 50 MPH Clear/Dry Project #: 18-8263-002

Northbound & Southbound Spot Speeds



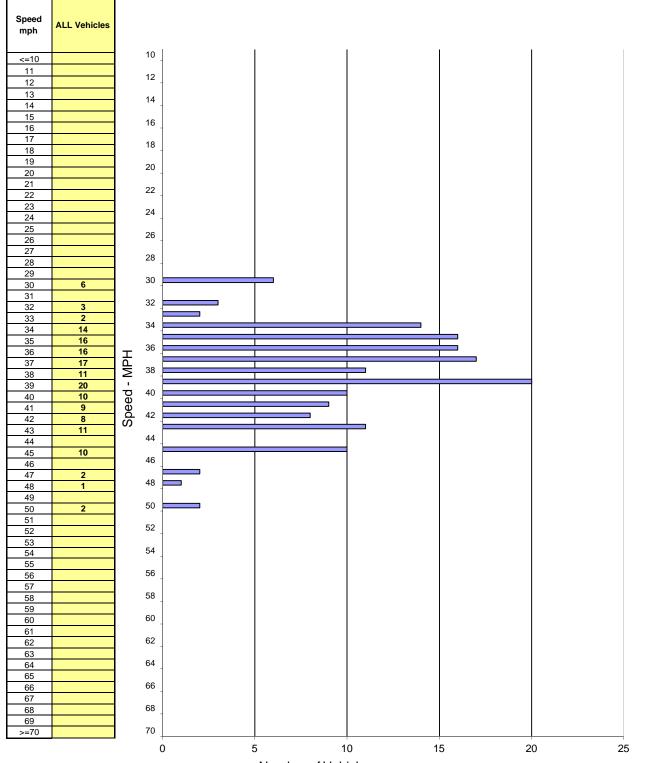
	SPEED PARAMETERS										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/23/2018 Location: 3 - Del Monte Blvd 120' S/O Palm Ave

Northbound & Southbound Spot Speeds



Number of Vehicles

	SPEED PARAMETERS										
Class	50th 85th 10 MPH Percent in										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL	ALL 158 30 - 50 38 mph 43 mph 34 - 43 132 84% 6% / 11 10% / 15										

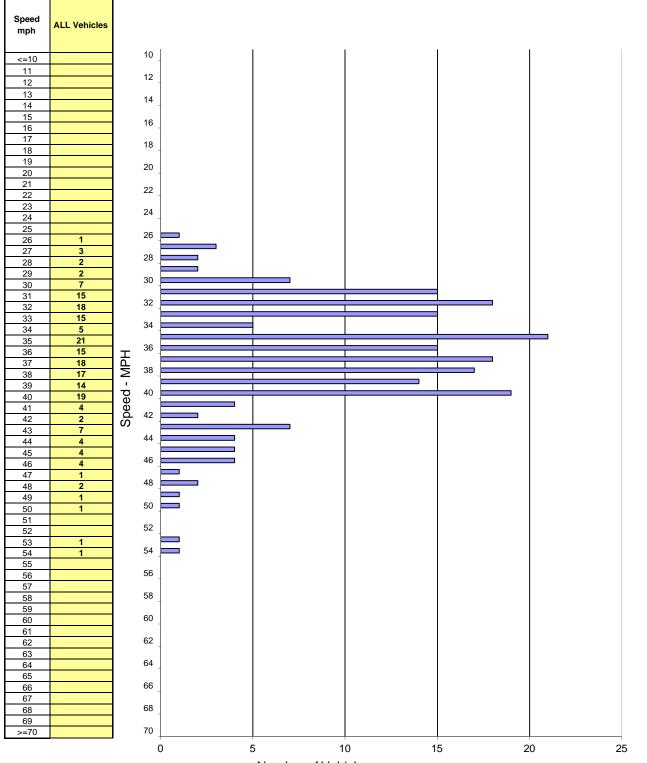
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 4 - 3180 Del Monte Blvd

TIME: 9:00-10:00 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-004

Northbound & Southbound Spot Speeds



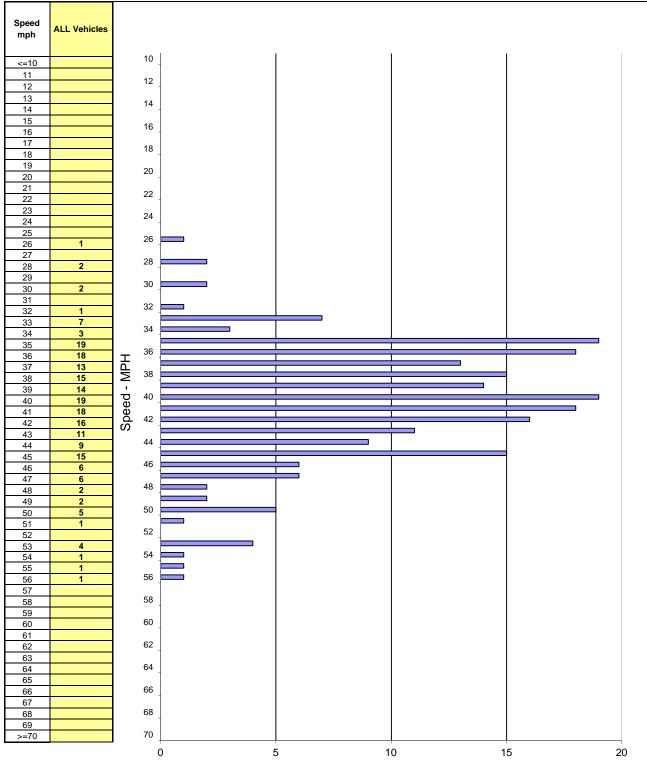
	SPEED PARAMETERS										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

Prepared by: National Data & Surveying Services

City of Marina

TIME: 09:22-10:22 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-005

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

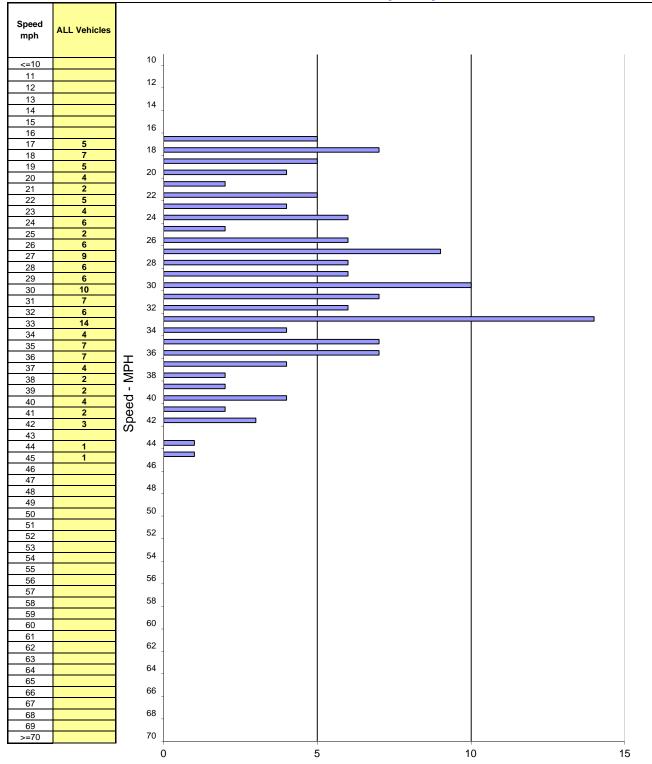
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/15/2018 Location: 6 - Reservation Rd 250' E/O Cardoza Ave

TIME: 9:15-10:15 Posted Speed: 35 MPH Clear/Dry Project #: 18-8263-006

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS										
Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL											

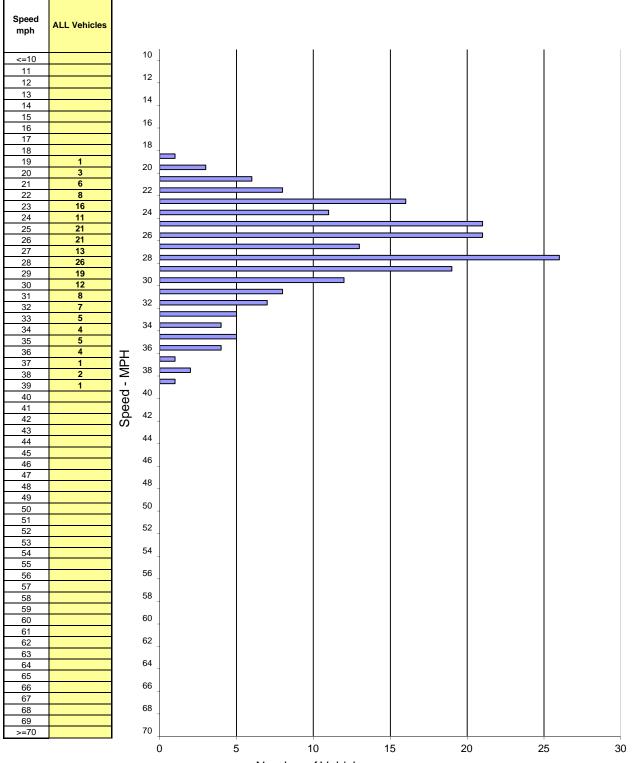
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 7 - Reservation Rd 500' N/O Del Monte Blvd

TIME: 9:00-10:30 Posted Speed: None Clear/Dry Project #: 18-8263-007

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS										
Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL											

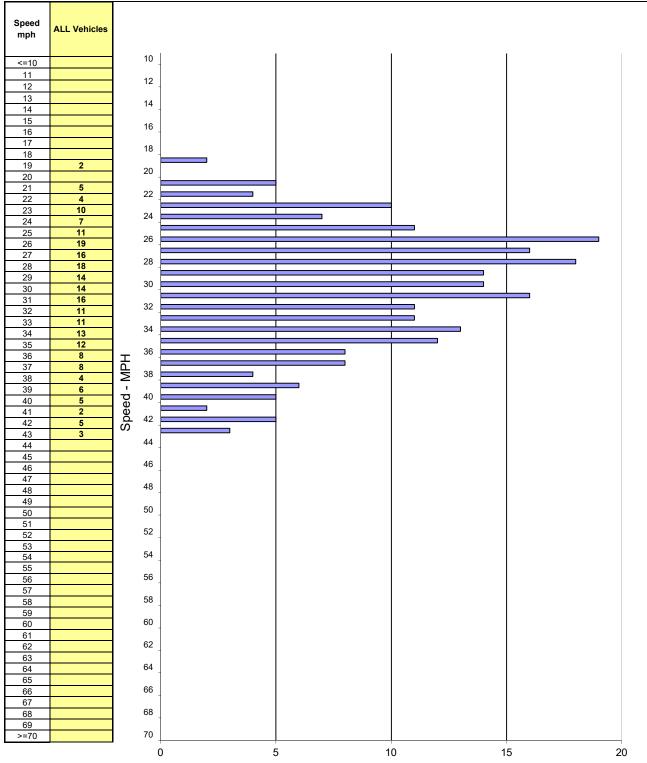
Prepared by: National Data & Surveying Services

City of Marina

DATE: 7/2/2019 Location: 8a - Reservation Rd 150' E/O Seacrest Ave

TIME: 10:45-11:48 Posted Speed: 35 MPH Clear/Dry Project #: 19-8372-001

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS										
Class	State Court Borner He Born										
Glass	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL	ALL 224 19 - 43 30 mph 36 mph 26 - 35 144 64% 17% / 39 19% / 41										

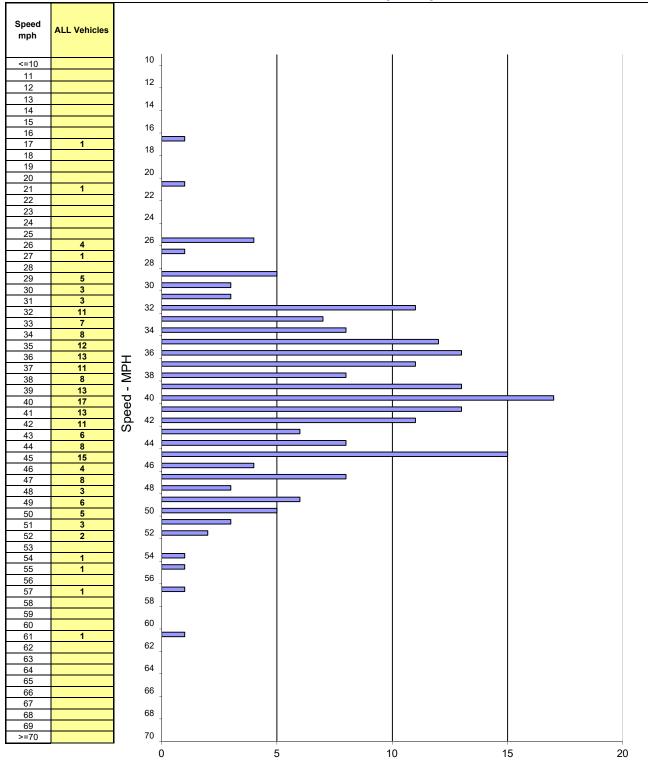
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 8b - Reservation Rd 200' W/O California Ave

TIME: 09:00-09:42 Posted Speed: 35 MPH Clear/Dry Project #: 18-8263-008

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS										
Class	State Court Borner He Born										
Ciass	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

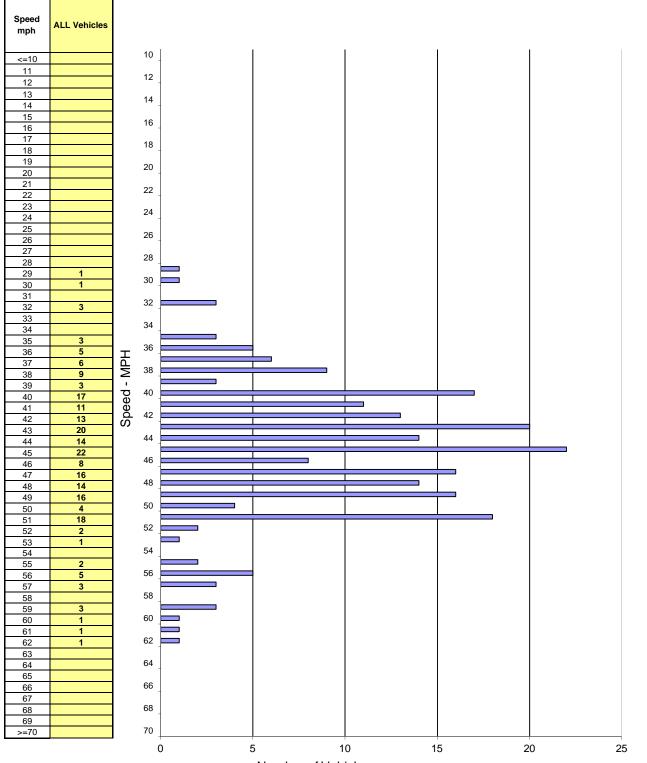
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 9 - Reservation Rd 300' E/O California Ave

TIME: 09:54-10:50 Posted Speed: 45 MPH Clear/Dry Project #: 18-8263-009

Eastbound & Westbound Spot Speeds



Number of Vehicles

	SPEED PARAMETERS										
	50th 85th 10 MPH Percent in										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL	ALL 223 29 - 62 45 mph 51 mph 40 - 49 151 68% 13% / 31 19% / 41										

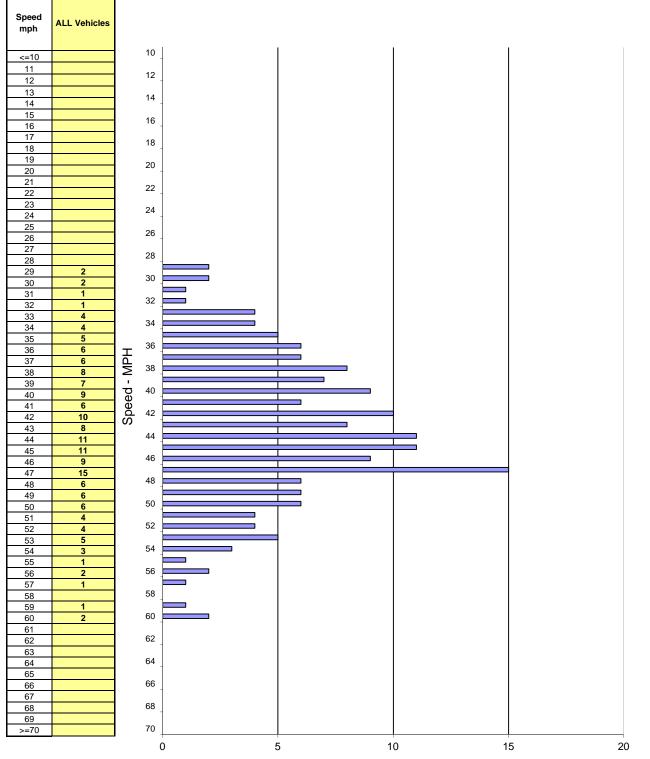
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 10 - Reservation Rd 1,800' W/O Imjin Pkwy

TIME: 09:10-09:50 Posted Speed: 55 MPH Clear/Dry Project #: 18-8263-010

Eastbound & Westbound Spot Speeds



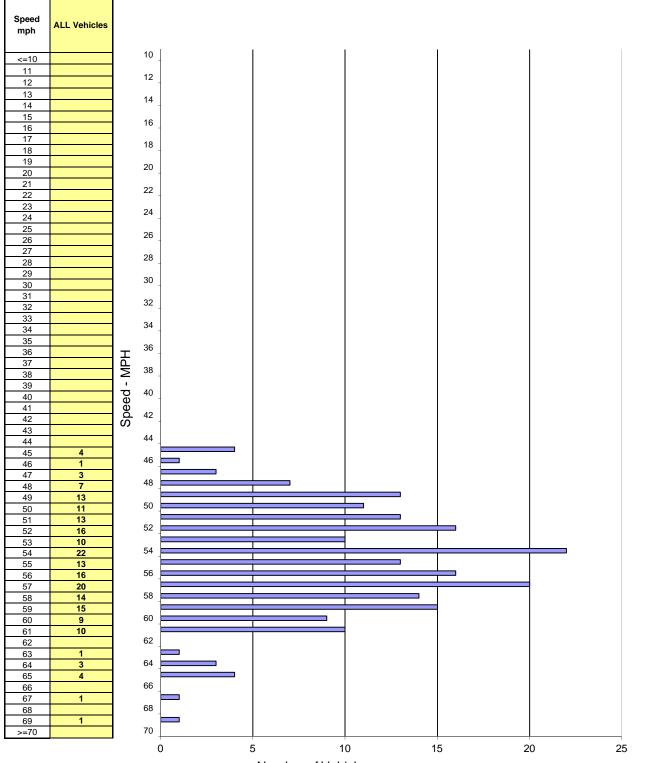
	SPEED PARAMETERS										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/23/2018 Location: 11 - Reservation Rd 100' W/O Mbest Dr

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS										
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

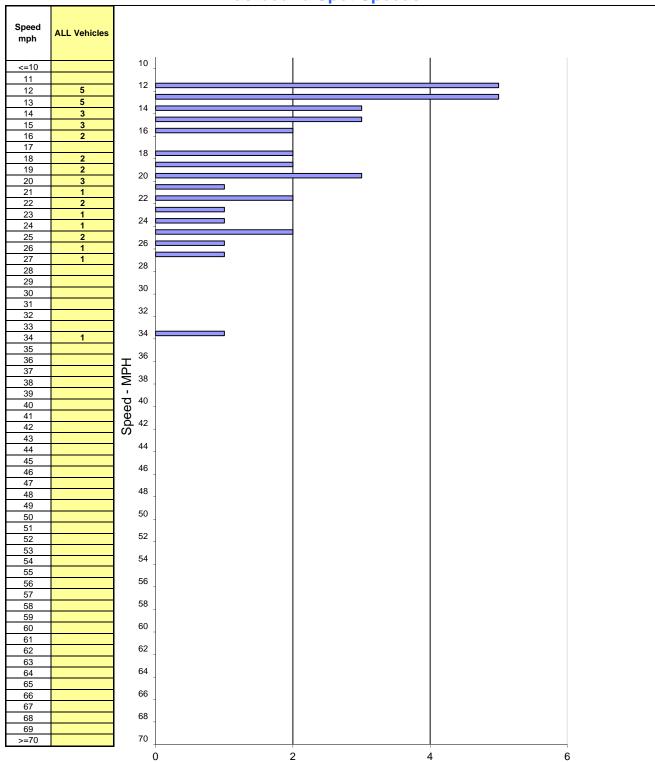
Prepared by: National Data & Surveying Services

City of Marina

DATE: 9/12/2018 Location: 12a - 8th St Bet. 2nd Ave & 3rd Ave

TIME: 9:00-11:00 Posted Speed: 35 MPH Clear/Dry Project #: 18-8439-001

Eastbound Spot Speeds



	SPEED PARAMETERS									
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace									
ALL										

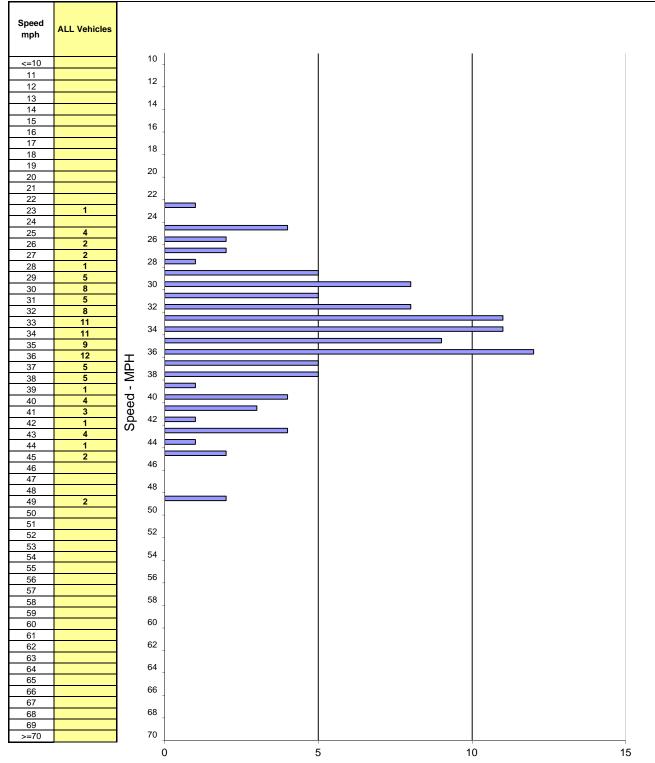
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 12b - 8th St 350' W/O 6th Ave

TIME: 11:40-13:00 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-012

Eastbound & Westbound Spot Speeds



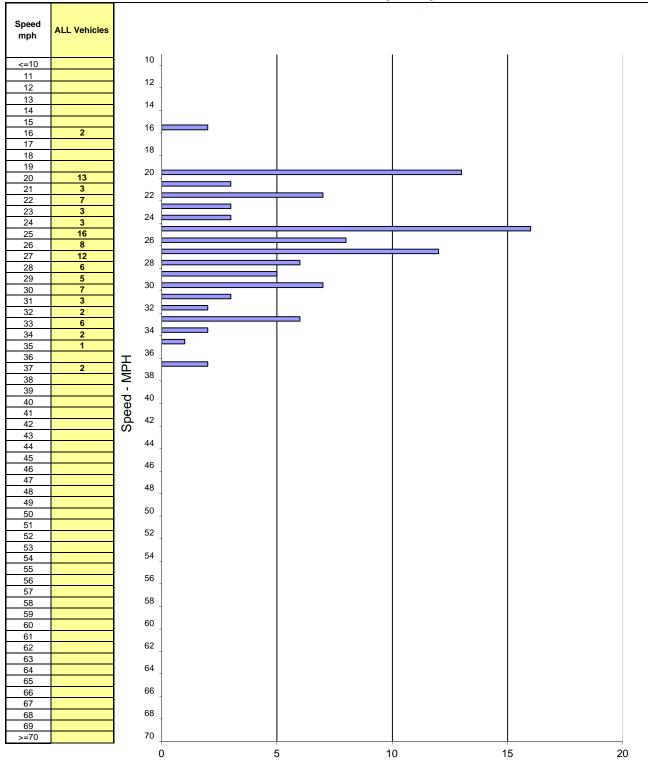
	SPEED PARAMETERS									
Class	Soth Soth 10 MPH Percent in									
ALL										

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 13 - 9th St 300' W/O 2nd Ave

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS									
Class	Soth Soth 10 MPH Percent in									
ALL										

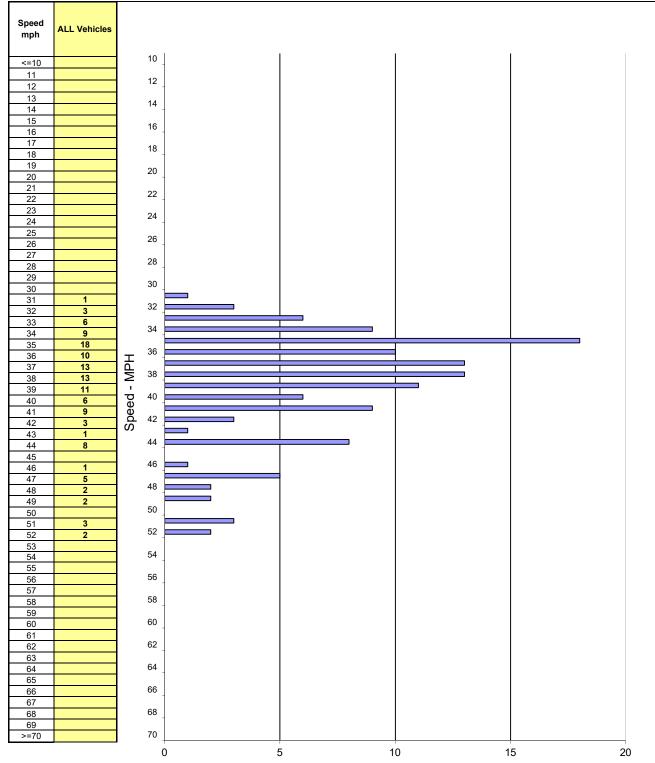
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/22/2018 Location: 14a - 2nd Ave 500' S/O 8th St

TIME: 09:00-10:00 Posted Speed: 35 MPH Clear/Dry Project #: 18-8263-014

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS										
Class	50th 85th 10 MPH Percent in Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

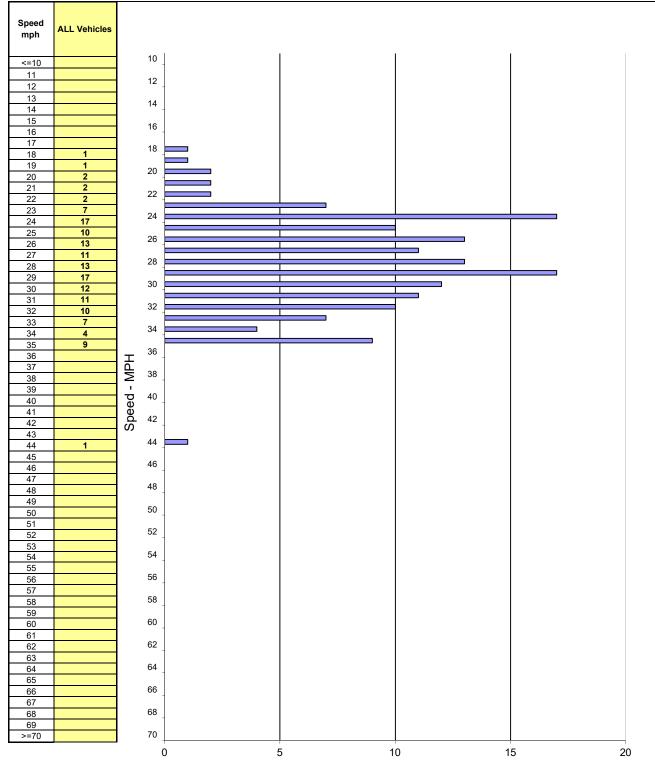
Prepared by: National Data & Surveying Services

City of Marina

DATE: 7/2/2019 Location: 14b - 2nd Ave 250' N/O General Stilwell Dr

TIME: 12:30-13:40 Posted Speed: 35 MPH Clear/Dry Project #: 19-8372-002

Northbound & Southbound Spot Speeds



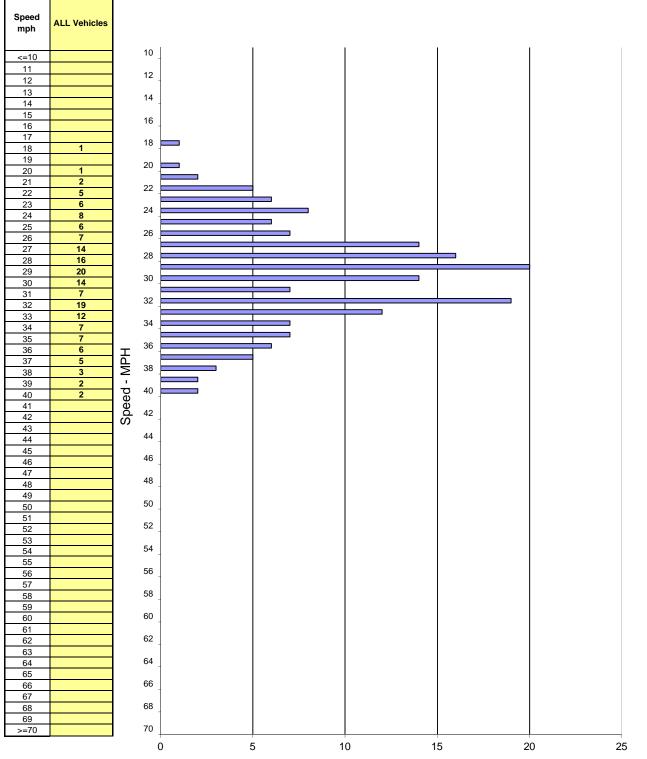
	SPEED PARAMETERS										
Class	50th 85th 10 MPH Percent in Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/15/2018 Location: 15 - Beach Rd 600' E/O Reservation Rd

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS											
	50th 85th 10 MPH Percent in											
Class	Count	Range	Percentile	Percentile	Pace	# in Pace	Pace	% / # Below Pace	% / # Above Pace			
ALL	170	18 - 40	29 mph	34 mph	24 - 33	123	72%	8% / 15	19% / 32			

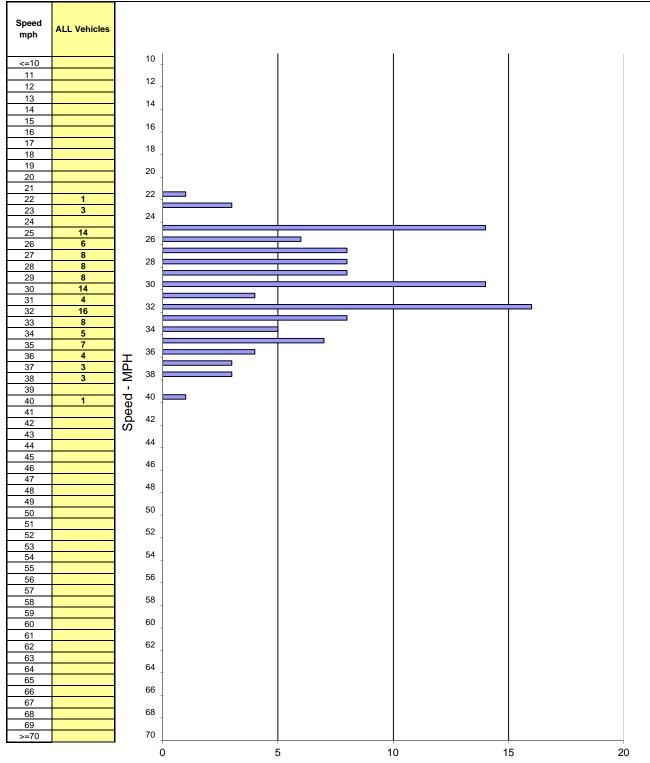
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 16 - 3184 Del Monte Blvd

TIME: 10:11-11:18 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-016

Northbound & Southbound Spot Speeds



SPEED PARAMETERS										
Class	50th 85th 10 MPH Percent in Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace									
ALL										

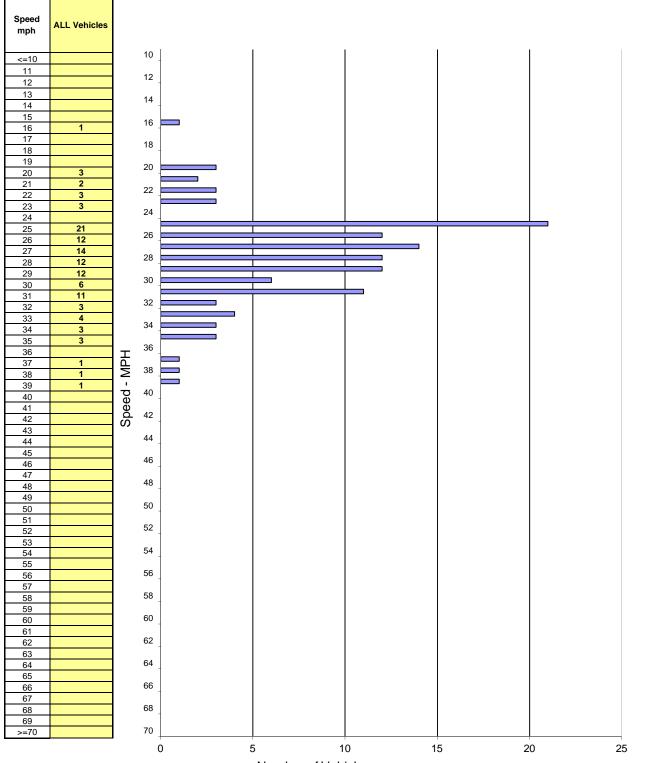
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 17 - 3159 Crescent Ave

TIME: 11:49-13:05 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-017

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS										
۵.	50th 85th 10 MPH Percent in										
Class	Count	Range	Percentile	Percentile	Pace	# in Pace	Pace	% / # Below Pace	% / # Above Pace		
ALL	116	16 - 39	27 mph	31 mph	25 - 34	98	84%	10% / 12	6% / 6		

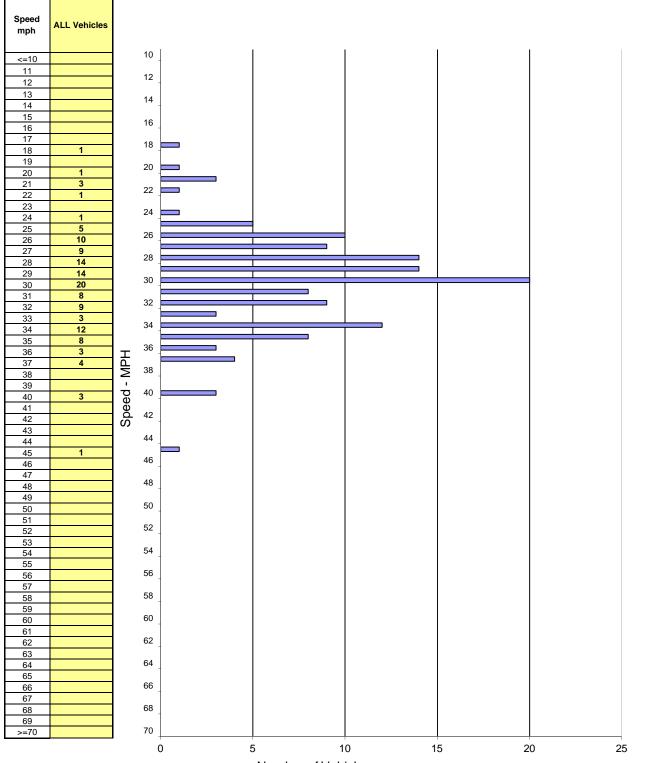
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 18 - 3122 Crescent Ave

TIME: 09:00-10:00 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-018

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS										
Class	Soth Soth 10 MPH Percent in										
ALL											

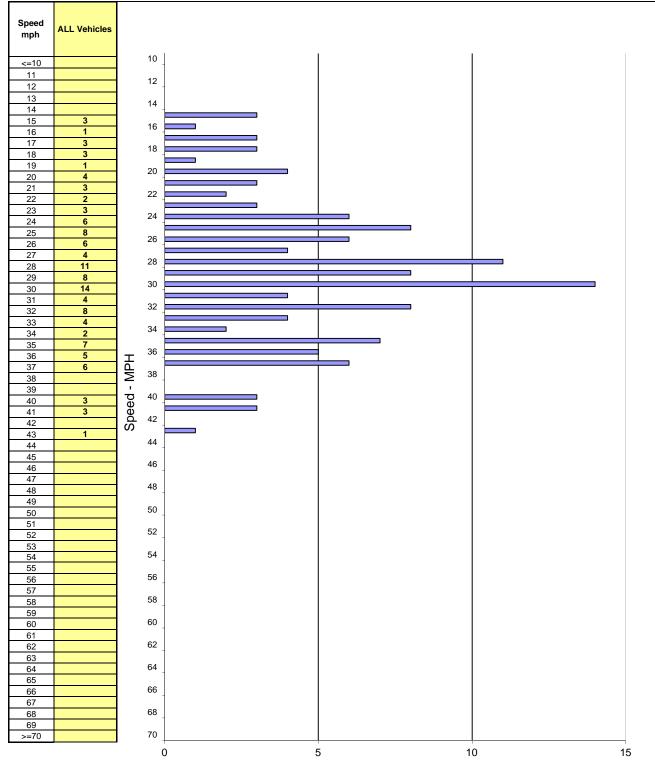
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/15/2018 Location: 19 - Cardoza Ave100' S/O Redondo Ct

TIME: 11:25-12:35 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-019

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS											
Class	Soth Soth 10 MPH Percent in											
ALL												

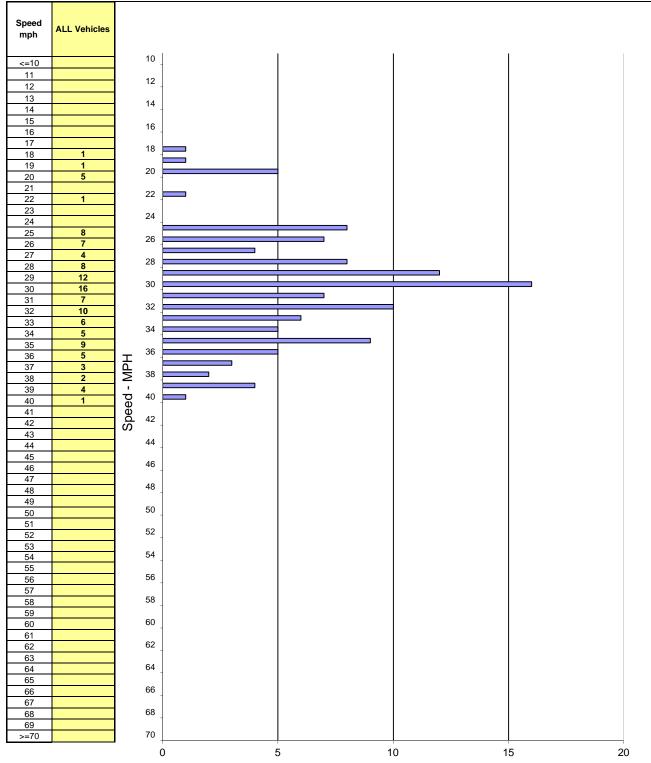
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/15/2018 Location: 20 - 235 Beach Rd

TIME: 10:50-11:50 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-020

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS											
01	50th 85th 10 MPH Percent in											
Class	Count	Range	Percentile	Percentile	Pace	# in Pace	Pace	% / # Below Pace	% / # Above Pace			
ALL	ALL 115 18 - 40 30 mph 35 mph 26 - 35 84 73% 13% / 16 14% / 15											

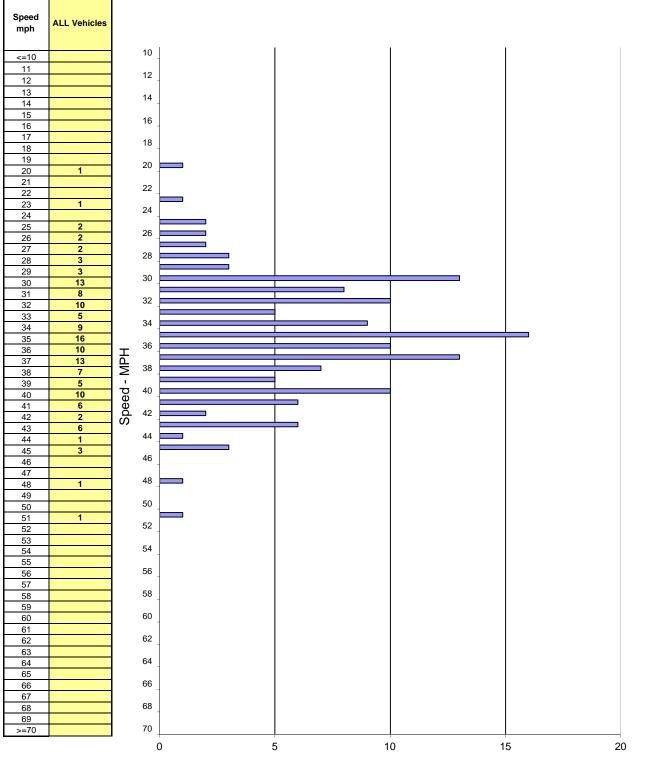
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 21 - California Ave 100' S/O Exeter PI

TIME: 11:00-12:00 Posted Speed: 35 MPH Clear/Dry Project #: 18-8263-021

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS											
۵.	50th 85th 10 MPH Percent in											
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL	ALL 140 20 - 51 35 mph 40 mph 30 - 39 96 69% 10% / 14 22% / 30											

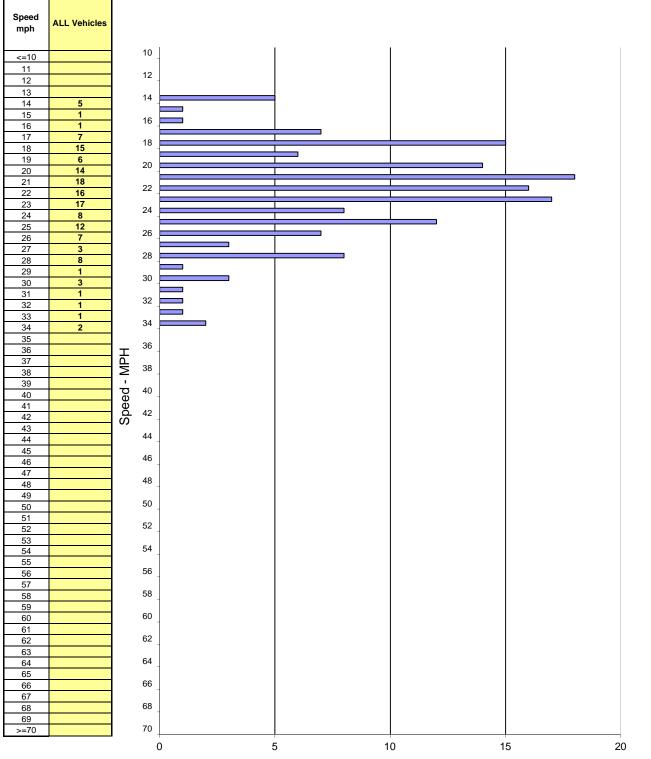
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 22 - California Ave 400' N/O Reindollar Ave

TIME: 09:00-09:45 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-022

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS											
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL												

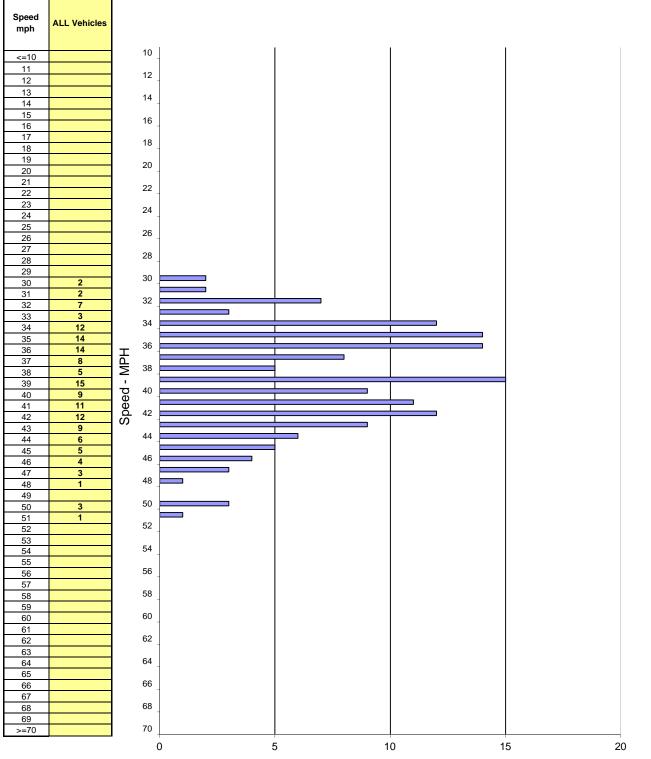
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/22/2018 Location: 23 - California Ave 150' S/O 3rd St

TIME: 10:10-11:10 Posted Speed: 35 MPH Clear/Dry Project #: 18-8263-023

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3					
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL												

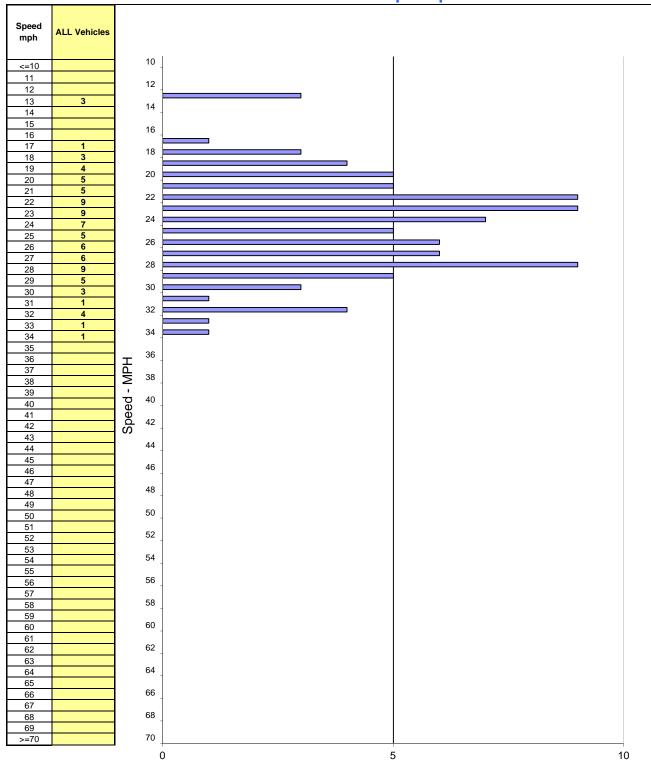
Prepared by: National Data & Surveying Services

City of Marina

DATE: 6/27/2018 Location: 24 - California Ave 200' S/O Imjin Pkwy

TIME: 13:00-15:00 Posted Speed: None Clear/Dry Project #: 18-8263-024

Northbound & Southbound Spot Speeds



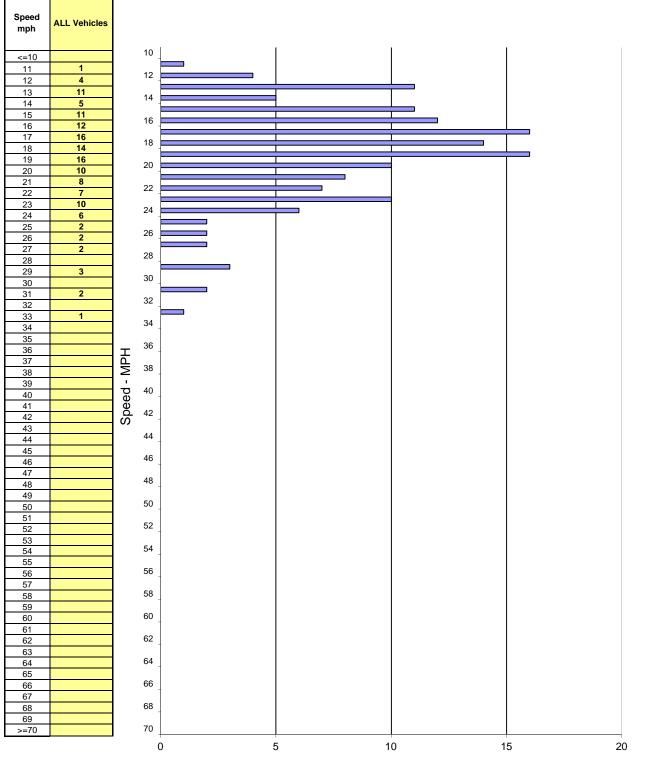
				SF	SPEED PARAMETERS											
Class	Soth Soth 10 MPH Percent in															
ALL																

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 25 - Reindollar Ave 200' W/O Vaughn Ave

Eastbound & Westbound Spot Speeds



				SF	PEED PAR	RAMETERS	3				
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL											

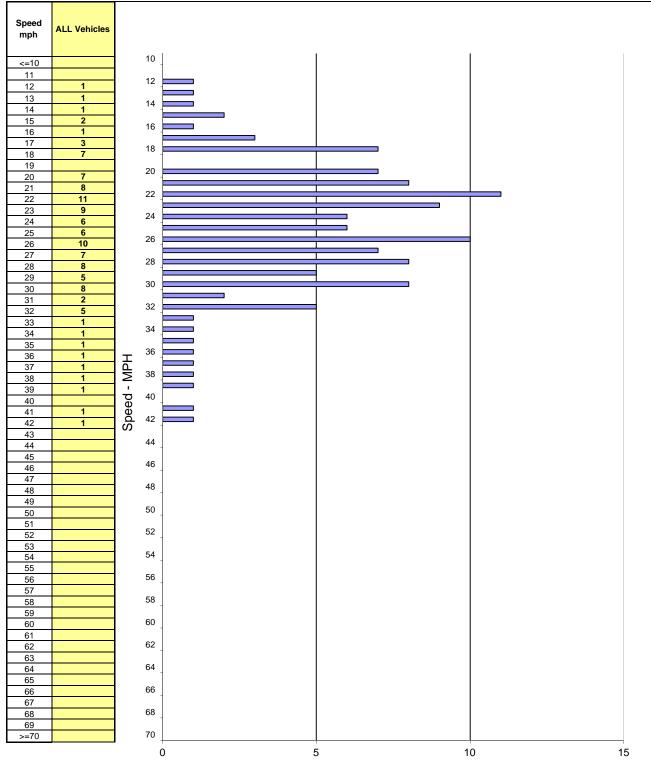
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 26 - Reindollar Ave 100' E/O Eddy St

TIME: 11:50-12:50 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-026

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS											
Class	Soth Soth 10 MPH Percent in											
ALL												

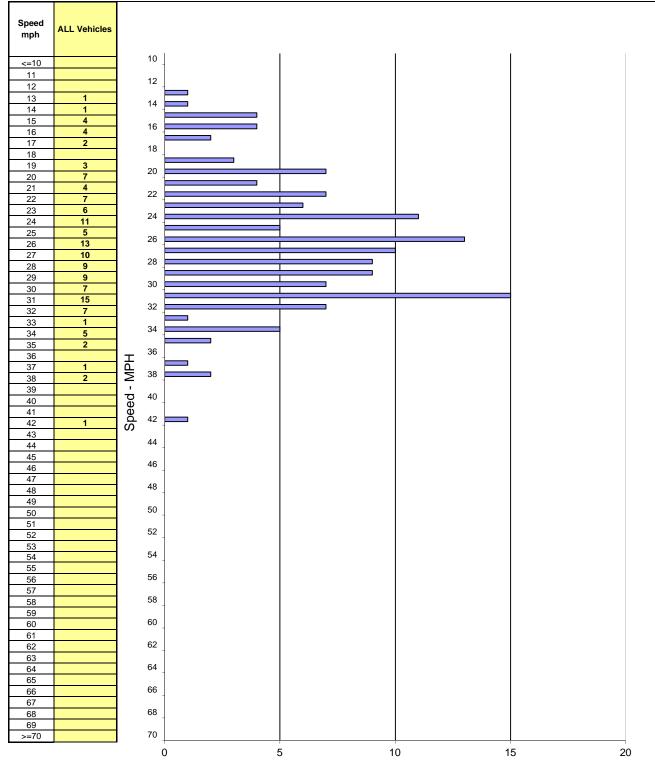
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 27 - Carmel Ave 50' W/O Busby Ln

TIME: 9:07-10:07 Posted Speed: None Clear/Dry Project #: 18-8263-027

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS											
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL												

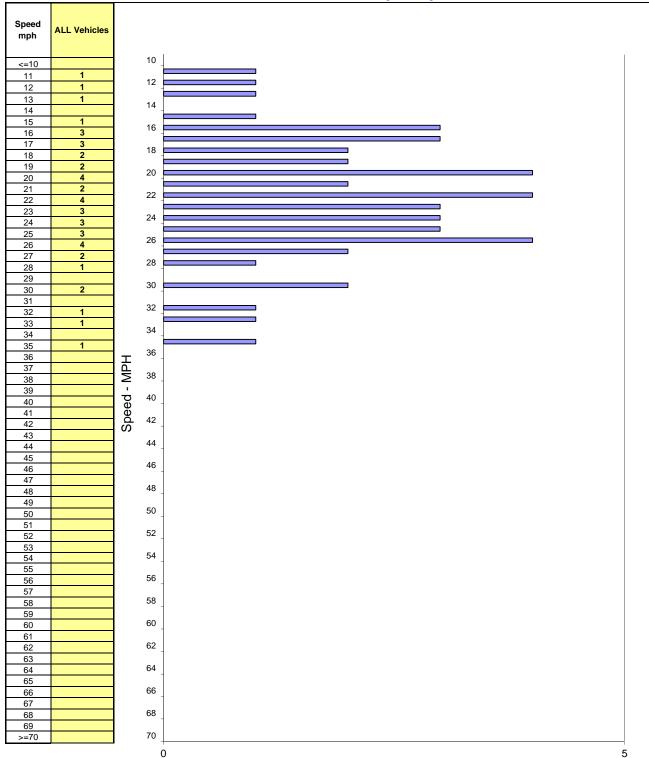
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 28 - Carmel Ave 200' E/O Lynscott Dr

TIME: 10:10-12:10 Posted Speed: 15 MPH Clear/Dry Project #: 18-8263-028

Eastbound & Westbound Spot Speeds



	SPEED PARAMETERS											
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace											
ALL	45	11 - 35	22 mph	27 mph	17 - 26	30	67%	15% / 7	18% / 8			

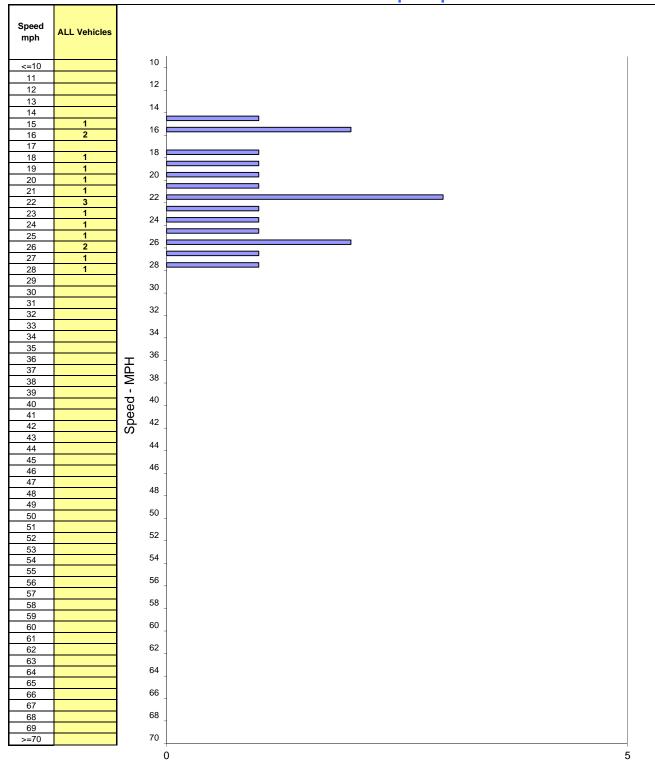
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 29 - Salinas Ave 50' N/O Ellis Ct

TIME: 12:00-14:00 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-029

Northbound & Southbound Spot Speeds



	SPEED PARAMETERS											
Class	50th 85th 10 MPH Percent in Class Count Range Percentile Percentile Pace # in Pace Pace % / # Above Pace											
Olass	Oount	Range	1 CICCILLIC	1 CICCILLIC	1 acc	# III I acc	1 acc	70 / # DCIOW I acc	70 / # ABOVC I dcc			
ALL	17	15 - 28	22 mph	26 mph	18 - 27	13	76%	17% / 3	6% / 1			

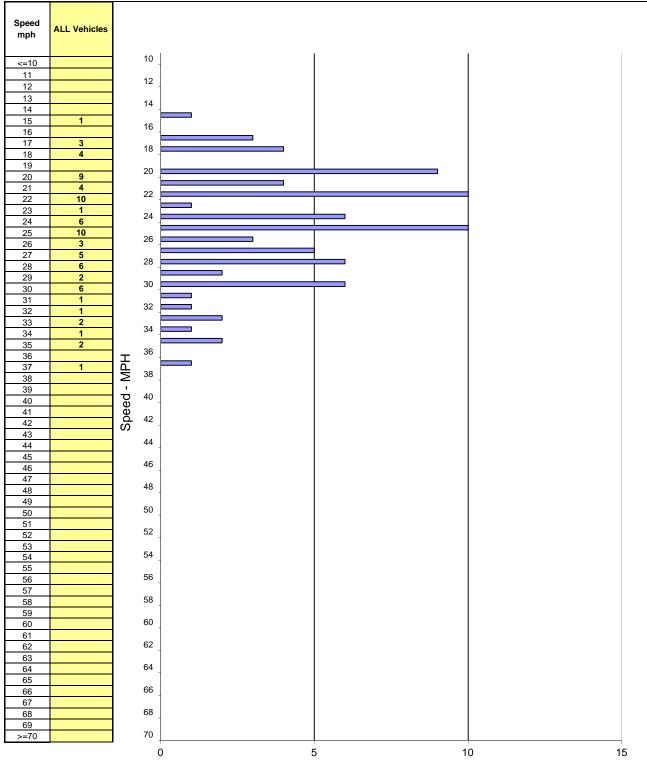
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/15/2018 Location: 30 - 3344 Paul Davis Dr

TIME: 11:55-13:55 Posted Speed: 20 MPH Clear/Dry Project #: 18-8263-030

Northbound & Southbound Spot Speeds



SPEED PARAMETERS											
Class Cour	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace										
ALL 78	15 - 37	25 mph	30 mph	20 - 29	56	72%	10% / 8	18% / 14			

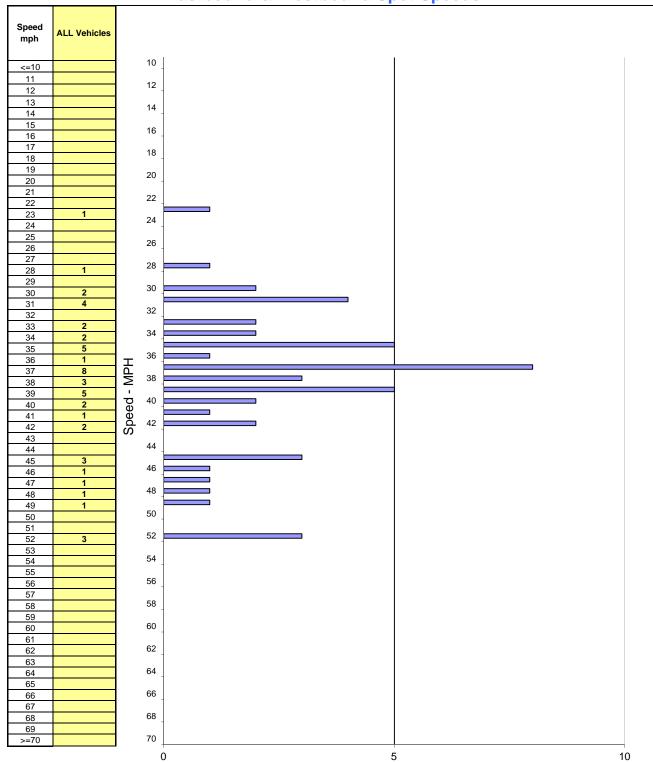
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/23/2018 Location: 31 - Patton Pkwy W/O California Ave

TIME: 10:50-12:50 Posted Speed: 30 MPH Clear/Dry Project #: 18-8263-031

Eastbound & Westbound Spot Speeds



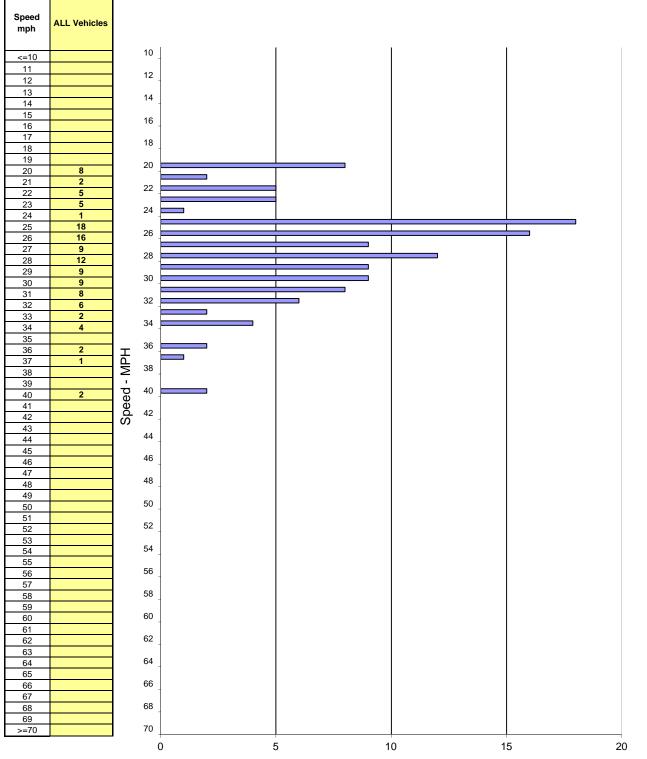
				SF	PEED PAR	RAMETERS	;							
Class	50th 85th 10 MPH Percent in Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace													
ALL														

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 32 - Crescent Ave 300' N/O Patton Pkwy

Northbound & Southbound Spot Speeds



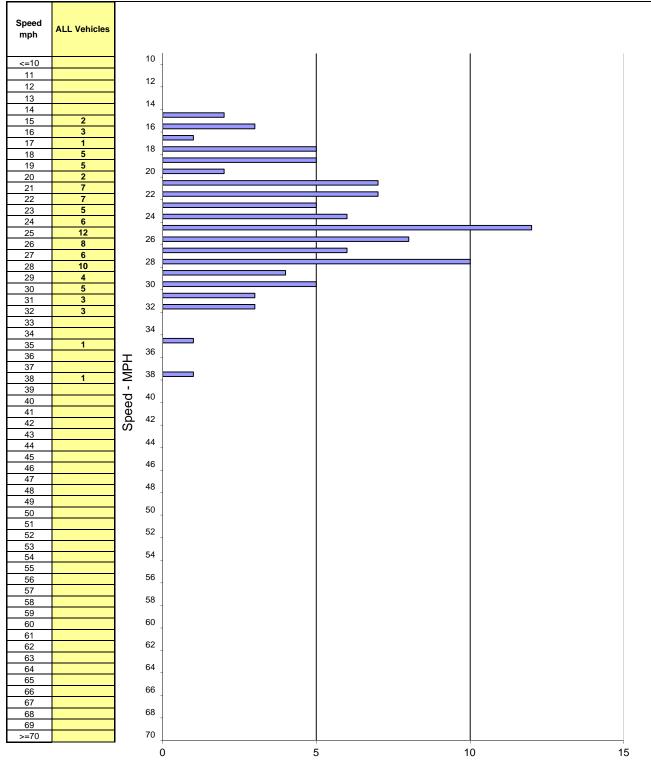
				SF	PEED PAR	RAMETERS	3							
Class	Class Count Page Page Page Page # in Page Page % / # Above Page													
ALL														

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/17/2018 Location: 33 - 3066 Vaughan Ave

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3							
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace					
ALL														

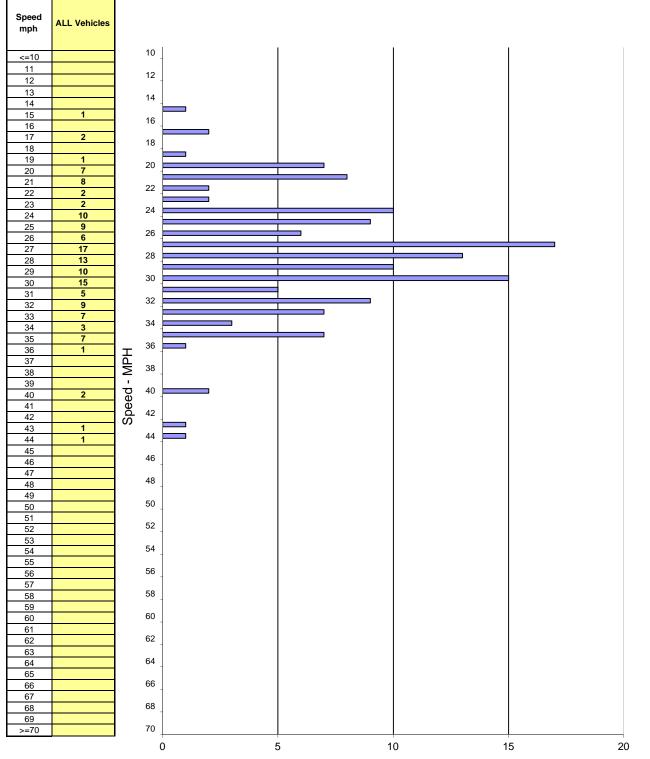
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 34 - Seacrest Ave 400' S/O Reservation Rd

TIME: 10:13-11:17 Posted Speed: None Clear/Dry Project #: 18-8263-034

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3							
Class	Class Count Page Page Page Page # in Page Page % / # Above Page													
ALL														

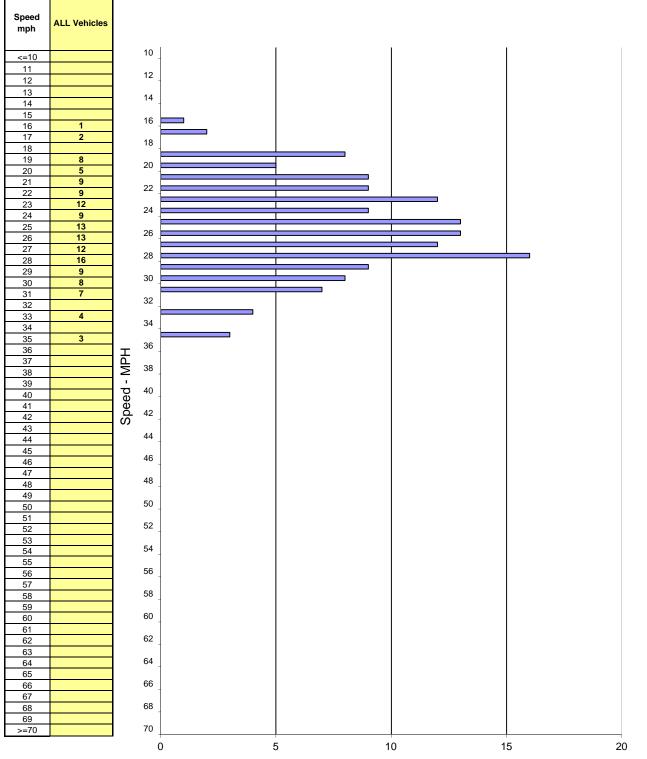
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 35 - Seacrest Ave 150' S/O Hillcrest Ave

TIME: 11:30-12:30 Posted Speed: None Clear/Dry Project #: 18-8263-035

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3							
Class	S0th 85th 10 MPH Percent in													
ALL														

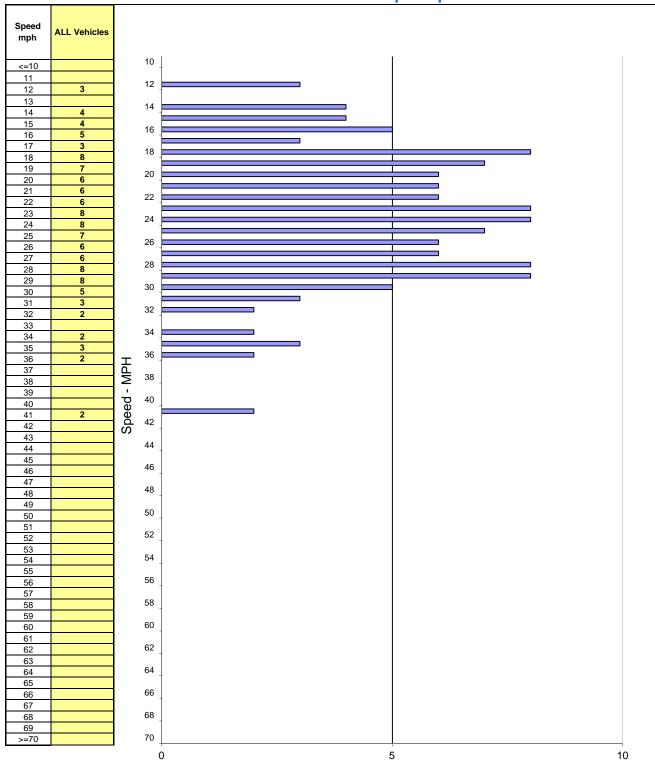
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 36 - Lake Dr 250' S/O Messinger Dr

TIME: 10:40-11:30 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-036

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	;						
Class	S0th 85th 10 MPH Percent in												
ALL													

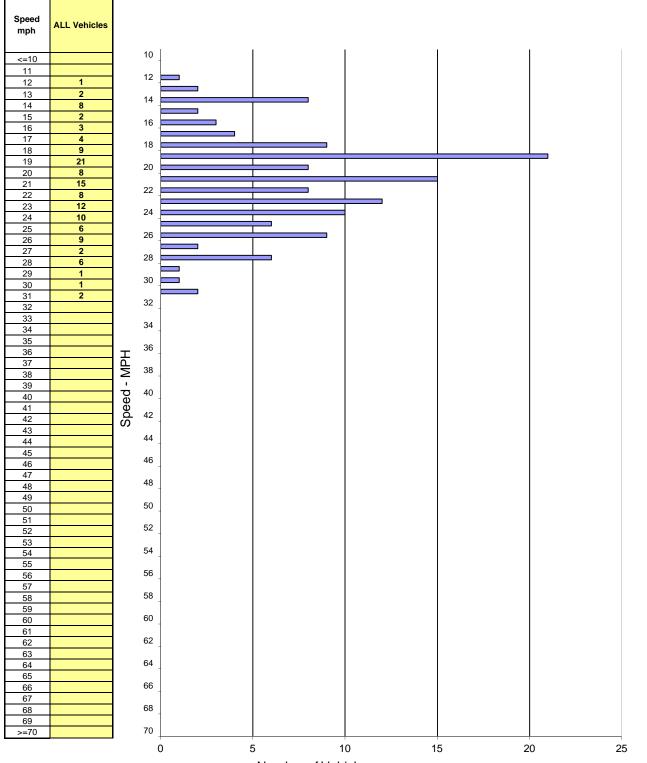
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/16/2018 Location: 37 - Palm Ave 300' W/O Marina Dr

TIME: 11:50-12:30 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-037

Eastbound & Westbound Spot Speeds



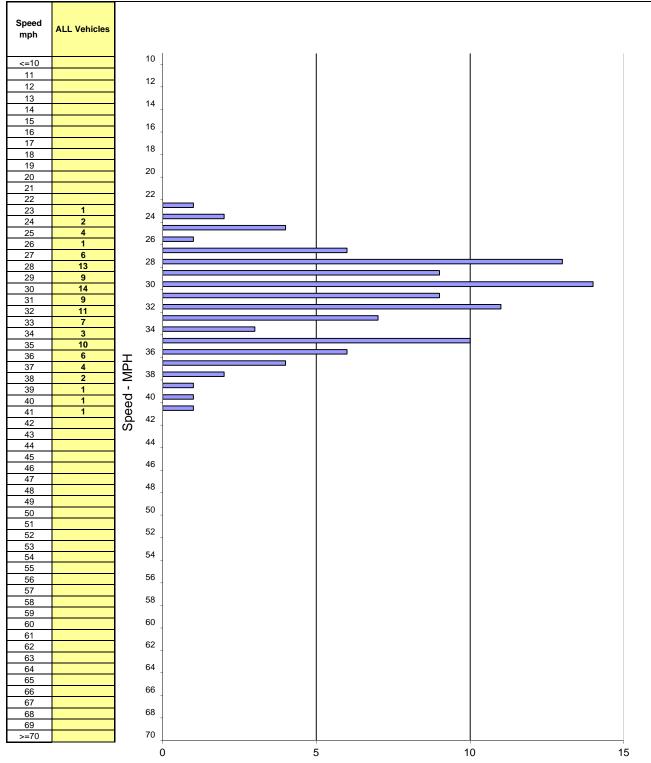
				SF	PEED PAR	RAMETERS	3							
Class	Class Count Range Beconstile Percentile Perc													
ALL														

Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/28/2018 Location: 38 - Abrams Dr 50' S/O Brostrom Dr

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3							
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace					
ALL														

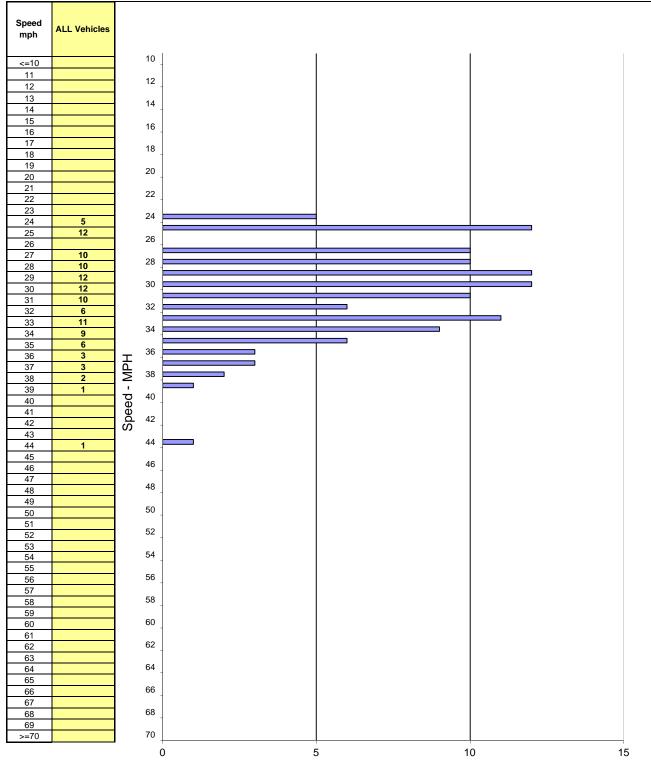
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/28/2018 Location: 39 - Preston Dr 150' S/O Landrum Ct

TIME: 13:25-14:55 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-039

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3							
Class	Class Count Range Percentile Percentile Pace # in Pace Pace % / # Below Pace % / # Above Pace													
ALL														

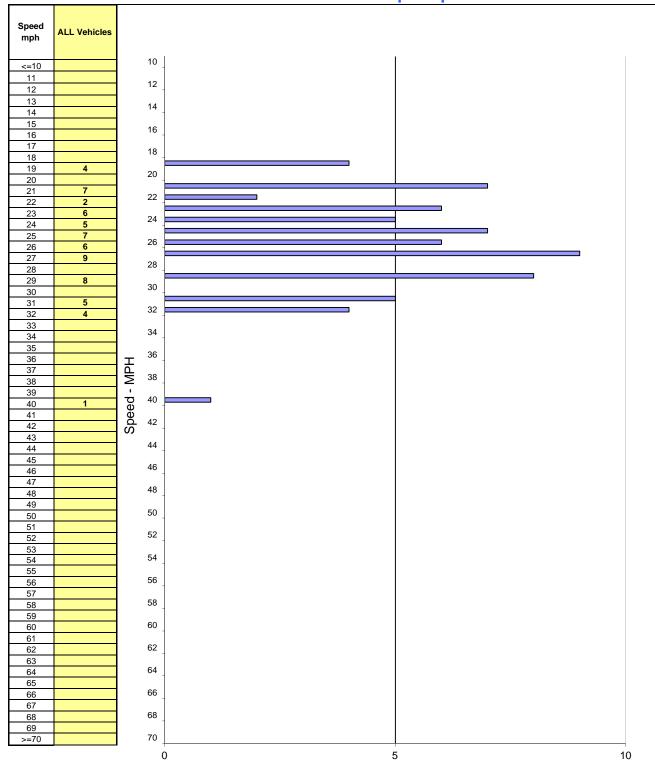
Prepared by: National Data & Surveying Services

City of Marina

DATE: 5/18/2018 Location: 40 - 3rd Ave 450' S/O Imjin Pkwy

TIME: 10:20-12:20 Posted Speed: 25 MPH Clear/Dry Project #: 18-8263-040

Northbound & Southbound Spot Speeds



				SF	PEED PAR	RAMETERS	3							
Class	Count	Range	50th Percentile	85th Percentile	10 MPH Pace	# in Pace	Percent in Pace	% / # Below Pace	% / # Above Pace					
ALL														



APPENDIX C AVERAGE DAILY TRAFFIC (ADT) VOLUMES

VOLUME

1 - Imjin Pkwy Bet. State Route 1 & California Ave (36.666907, -121.806302)

	DAILY TOTALS			NB		SB		EB		WB						To	otal
	DAILT TOTALS			0		0		13,983		14,060						28,	,043
AM Period	NB SB	EB		WB		ТО	TAL	PM Period	NB		SB	EB		WB		TO	TAL
00:00		23		12		35		12:00 12:15				183 194		186		369	
00:15 00:30		29 20		13 14		42 34		12:30				222		234 229		428 451	
00:45		20	92	9	48	29	140	12:45				191	790	213	862	404	1652
01:00		23		8		31		13:00				209		213		422	
01:15 01:30		11 10		8 4		19 14		13:15 13:30				226 216		187 187		413 403	
01:45		12	56	8	28	20	84	13:45				215	866	205	792	420	1658
02:00		10		6		16		14:00				219		189		408	
02:15 02:30		9 11		9 8		18 19		14:15 14:30				213 184		199 206		412 390	
02:45		9	39	10	33	19	72	14:45				262	878	207	801	469	1679
03:00		11		11		22		15:00				268		234		502	
03:15 03:30		3 3		9 16		12 19		15:15 15:30				276 309		216 233		492 542	
03:45		9	26	17	53	26	79	15:45				320	1173	213	896	533	2069
04:00		11		13		24		16:00				307		213		520	
04:15 04:30		13 14		27 47		40 61		16:15 16:30				298 342		234 265		532 607	
04:45		10	48	50	137	60	185	16:45				326	1273	268	980	594	2253
05:00		11		40		51		17:00				339		242		581	
05:15		23 23		60 89		83 112		17:15 17:30				326 333		318 300		644 633	
05:30 05:45		23 34	91	89 77	266	111	357	17:30 17:45				284	1282	260	1120	544	2402
06:00		55		129		184		18:00				300		214		514	
06:15		109		161		270		18:15				255		181		436	
06:30 06:45		124 127	415	248 316	854	372 443	1269	18:30 18:45				239 219	1013	156 166	717	395 385	1730
07:00		136	413	408	054	544	1203	19:00				202	1013	129	717	331	1730
07:15		176		429		605		19:15				221		111		332	
07:30 07:45		251 250	813	377 334	1548	628 584	2361	19:30 19:45				171 189	783	94 115	449	265 304	1232
08:00		251	013	272	1340	523	2301	20:00				178	703	71	443	249	1232
08:15		194		283		477		20:15				158		85		243	
08:30 08:45		156 167	768	277 282	1114	433 449	1882	20:30 20:45				164 154	654	82 82	320	246 236	974
09:00		165	700	249	1114	414	1002	21:00				134	034	53	320	187	374
09:15		168		233		401		21:15				134		71		205	
09:30 09:45		144	622	208	011	352	1524	21:30 21:45				140 127	E2E	70 65	250	210	794
10:00		146 112	623	221 218	911	367 330	1534	22:00				93	535	44	259	192 137	794
10:15		157		196		353		22:15				86		53		139	
10:30		147	F.C.7	212	005	359	1272	22:30				72	225	46	177	118	502
10:45 11:00		151 160	567	179 197	805	330 357	1372	22:45 23:00				74 68	325	34 22	177	108 90	502
11:15		152		169		321		23:15				51		34		85	
11:30		182	CE2	220	700	402	1.1.1.1	23:30				52	220	26	103	78	222
11:45 TOTALS		159	653	202	788	361	1441 10776	23:45 TOTALS				49	220	20	102	69	322 17267
			4191		6585								9792		7475		
SPLIT %			38.9%		61.1%		38.4%	SPLIT %					56.7%		43.3%		61.6%
	DAILY TOTALS			NB		SB		EB		WB						To	otal
	DAILT TOTALS			0		0		13,983		14,060						28	,043
AM Peak Hour			07:30		07:00		07:00	PM Peak Hour					16:30		16:45		16:45
AM Pk Volume			946		1548		2361	PM Pk Volume					1333		1128		2452
Pk Hr Factor			0.942		0.902		0.940	Pk Hr Factor					0.974		0.887		0.952
7 - 9 Volume			1581		2662		4243	4 - 6 Volume					2555		2100		4655
7 - 9 Peak Hour 7 - 9 Pk Volume			07:30 946		07:00 1548		07:00 2361	4 - 6 Peak Hour 4 - 6 Pk Volume					16:30 1333		16:45 1128		16:45 2452
Pk Hr Factor			0.942		0.902		0.940	Pk Hr Factor					0.974		0.887		0.952
	3,000				5.502										2.307		

VOLUME

2 - Imjin Pkwy Bet. California Ave & Reservation Rd (36.662690, -121.792610)

	DAILY TOTALS			NB		SB		EB	W	В					To	otal
	DAILI TOTALS			0		0		12,388	13,	851					26,	,239
AM Period	NB SB	EB		WB			TAL	PM Period	NB	SB	ЕВ		WB		_	TAL
00:00 00:15		16 28		12 11		28 39		12:00 12:15			167 169		218 237		385 406	
00:30		15		16		31		12:30			201		179		380	
00:45 01:00		22 8	81	13 7	52	35 15	133	12:45 13:00			203 185	740	168 194	802	371 379	1542
01:15		13		12		25		13:15			172		239		411	
01:30 01:45		13 7	41	12 13	44	25 20	85	13:30 13:45			191 219	767	187 184	804	378 403	1571
02:00		4	71	8		12	- 03	14:00			155	707	185	004	340	1371
02:15 02:30		11 5		12 5		23 10		14:15 14:30			223 182		212 180		435 362	
02:45		9	29	10	35	19	64	14:45			246	806	201	778	447	1584
03:00 03:15		8		9		17		15:00 15:15			258		231		489 479	
03:15		2 8		14 11		16 19		15:30			246 271		233 200		479	
03:45		8	26	18	52	26	78	15:45			296	1071	211	875	507	1946
04:00 04:15		6 7		15 39		21 46		16:00 16:15			301 263		215 259		516 522	
04:30		8	20	51	450	59	407	16:30			268	4400	250	000	518	2000
04:45 05:00		<u>8</u> 12	29	53 34	158	61 46	187	16:45 17:00			276 253	1108	256 250	980	532 503	2088
05:15		24		56		80		17:15			275		339		614	
05:30 05:45		26 33	95	91 85	266	117 118	361	17:30 17:45			290 224	1042	276 270	1135	566 494	2177
06:00		38		127		165		18:00			253		199		452	
06:15 06:30		66 101		189 246		255 347		18:15 18:30			215 193		183 170		398 363	
06:45		98	303	287	849	385	1152	18:45			189	850	173	725	362	1575
07:00 07:15		105 177		342 330		447 507		19:00 19:15			191 193		121 131		312 324	
07:30		252		334		586		19:30			167		93		260	
07:45 08:00		231 217	765	283 266	1289	514 483	2054	19:45 20:00			168 174	719	117 85	462	285 259	1181
08:15		204		245		449		20:15			151		99		250	
08:30 08:45		174 121	716	274 306	1091	448 427	1807	20:30 20:45			152 139	616	90 87	361	242 226	977
09:00		129	710	243	1031	372	1007	21:00			132	010	56	301	188	311
09:15 09:30		124 116		225		349		21:15 21:30			128 131		79 74		207	
09:45		133	502	226 223	917	342 356	1419	21:45			126	517	67	276	205 193	793
10:00		120		229		349		22:00			88		50		138	
10:15 10:30		124 128		212 199		336 327		22:15 22:30			83 66		67 51		150 117	
10:45		120	492	185	825	305	1317	22:45			73	310	39	207	112	517
11:00 11:15		140 127		178 190		318 317		23:00 23:15			62 49		29 40		91 89	
11:30		143		183		326		23:30			48		31		79	
11:45		144	554	193	744	337	1298 9955	23:45 TOTALS			50	209	24	7529	74	333
TOTALS			3633		6322							8755				16284
SPLIT %			36.5%		63.5%		37.9%	SPLIT %				53.8%		46.2%		62.1%
	DAILY TOTALS			NB		SB		EB	W	_						otal
				0		0		12,388	13,	851					26,	,239
AM Peak Hour			07:30		06:45		07:15	PM Peak Hour				15:30		17:00		16:45
AM Pk Volume			904		1293		2090	PM Pk Volume Pk Hr Factor				1131		1135		2215
Pk Hr Factor 7 - 9 Volume	0 0		0.897 1481		0.945 2380		0.892 3861	4 - 6 Volume	0		0	0.939 2150		0.837 2115		0.902 4265
7 - 9 Peak Hour			07:30		07:00		07:15	4 - 6 Peak Hour				16:00		17:00		16:45
7 - 9 Pk Volume			904		1289		2090	4 - 6 Pk Volume				1108		1135		2215
Pk Hr Factor	0.00	U	0.897		0.942		0.892	Pk Hr Factor	0.0	UU	0.000	0.920		0.837		0.902

VOLUME

3 - Del Monte Blvd Bet. SR1/Reindollar Ave & Reservation Rd (36.683948, -121.803128)

	D	AILY 1	ſΩΤΛ	115		NB		SB		EB		WB						Т	otal
	וט	-\ILI		(L)		9,860		9,050		0		0						18	3,910
AM Period	NB		SB		ЕВ	WB		ТО	TAL	PM Period	NB		SB		EB	W	В	TO	OTAL
00:00 00:15	19 29		19 15					38 44		12:00 12:15	153 163		173 163					326 326	
00:30	18		13					31		12:30	175		170					345	
00:45 01:00	14 11	80	10 12	57				24 23	137	12:45 13:00	168 160	659	133 156	639				301 316	1298
01:15	17		15					32		13:15	191		154					345	
01:30 01:45	12 9	49	7 4	38				19 13	87	13:30 13:45	163 198	712	162 149	621				325 347	1333
02:00	12	43	4	30				16	67	14:00	155	/12	141	021				296	1333
02:15 02:30	6 6		4 7					10 13		14:15 14:30	181 149		164 191					345 340	
02:45	11	35	7	22				18	57	14:45	163	648	156	652				319	1300
03:00	2		2					4		15:00 15:15	182		141					323	
03:15 03:30	5 7		4 4					9 11		15:30	226 185		162 179					388 364	
03:45	5	19	5	15				10	34	15:45	220	813	149	631				369	1444
04:00 04:15	10 6		9 8					19 14		16:00 16:15	220 204		140 161					360 365	
04:30	10	40	6	22				16	75	16:30	211	072	192	620				403	4504
04:45 05:00	17 8	43	9 16	32				26 24	75	16:45 17:00	238 241	873	135 127	628				373 368	1501
05:15	16		14					30		17:15	222		153					375	
05:30 05:45	23 32	79	37 36	103				60 68	182	17:30 17:45	212 199	874	136 130	546				348 329	1420
06:00	41		42					83		18:00	210		125					335	
06:15 06:30	40 52		77 122					117 174		18:15 18:30	193 163		124 145					317 308	
06:45	68	201	164	405				232	606	18:45	151	717	83	477				234	1194
07:00 07:15	83 69		186 197					269 266		19:00 19:15	128 144		104 85					232 229	
07:30	104		183					287		19:30	158		85					243	
07:45 08:00	144 120	400	148 180	714				292 300	1114	19:45 20:00	102 114	532	81 101	355				183 215	887
08:15	102		165					267		20:15	104		73					177	
08:30 08:45	94 134	450	174 169	688				268 303	1138	20:30 20:45	108 87	413	78 65	317				186 152	730
09:00	112	430	133	000				245	1130	21:00	92	413	57	317				149	730
09:15 09:30	113 111		135 127					248		21:15 21:30	85 74		53 47					138 121	
09:45	108	444	114	509				238 222	953	21:45	68	319	47	202				113	521
10:00	108		135					243		22:00 22:15	71 70		49					120	
10:15 10:30	131 116		115 144					246 260		22:30	40		44 34					114 74	
10:45	125	480	149	543				274	1023	22:45	44	225	35	162				79 79	387
11:00 11:15	155 161		159 162					314 323		23:00 23:15	50 30		29 22					52	
11:30	162	643	150	F07				312	1240	23:30	36	453	24	07				60	240
11:45 TOTALS	165	643 2923	126	597 3723				291	1240 6646	23:45 TOTALS	36	152 6937	22	97 5327				58	249 12264
SPLIT %		44.0%		56.0%					35.1%	SPLIT %		56.6%		43.4%					64.9%
	D	AILY 1	ΓΟΤΑ	LS		NB		SB		EB		WB							otal
						9,860		9,050		0		0						18	3,910
AM Peak Hour		11:45		06:45					11:45	PM Peak Hour		16:45		14:00					16:30
AM Pk Volume Pk Hr Factor		656 0.937		730 0.926					1288 0.933	PM Pk Volume Pk Hr Factor		913 0.947		652 0.853					1519 0.942
7 - 9 Volume		850		1402	0		0		2252	4 - 6 Volume		1747		1174		0	0		2921
7 - 9 Peak Hour		07:30		07:00					07:30	4 - 6 Peak Hour		16:45		16:00					16:30
7 - 9 Pk Volume Pk Hr Factor		470 0.816		714 0.906					1146 0.955	4 - 6 Pk Volume Pk Hr Factor		913 0.947		628 0.818					1519 0.942
PK HI PACTOR		0.810		0.906	0:00)	0.000		0.355	FR THE FACIUL		0.947		0.818	U.	.000	0.00	10	0.942

VOLUME

4 - Del Monte Blvd Bet. Reservation Rd & Beach Rd (36.690640, -121.798229)

AMPeriold NB SB EB WB TOTAL PM Period NB SB EB WB TOTAL 0.0015 7 5 1 12 1215 66 55 1211 0.0015 7 5 5 12 12 1215 66 55 5 1211 0.002		D	A II V T	OT A	110		NB		SB		EB		WB						То	otal
00-00		U,	AILY I	UIA	(L)		4,392	3	,701		0		0						8,0	93
00-00	AM Period	NB		SB		ЕВ	WB		TO.	ΓAL	PM Period	NB		SB		EB	W	В	ТО	TAL
00:30		4		7							12:00			61					130	
00:00 3 2 2 18 6 37 12:45 78 296 50 224 128 520																				
01:00 3 2 5 13:00 93 75 168			10		10					27			206		224					520
01:15 3 0 0 3 13:15 83 55 138 01:30 5 10 2 6 10 156 31 13:30 80 76 156 01:45 10 21 6 10 156 31 13:45 81 337 60 266 141 603 02:20 3 1 4 4 14:40 73 62 63 135 02:20 3 6 9 14:40 73 62 63 135 02:20 3 6 9 14:40 73 88 88 165 02:24 4 17 7 16 11 33 14:43 73 309 53 279 126 588 03:00 3 2 5 15:00 82 69 151 03:30 3 2 5 15:00 82 79 151 03:30 3 3 6 6 21 15:30 72 65 137 04:40 5 11 4 1 6 6 22 13:45 85 321 66 279 151 04:40 5 1 4 15:00 74 76 150 04:40 5 1 4 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 3 8 16:00 74 76 150 04:40 5 5 77 77 77 77 77 77			13		10					31			230		224					320
01:45 10 21 6 10 16 31 13:45 81 337 60 266 141 603 02:40 3 1 4 14:00 73 602 02:30 3 17 7 16 11 33 14:30 78 309 83 279 1661 03:40 3 2 5 5 15 15:15 82 79 1651 03:40 3 2 5 5 15:15 82 79 1651 03:30 3 3 6 15:30 72 65 137 03:45 2 11 4 11 6 6 22 15:45 85 221 66 279 1515 04:40 3 1 4 16:00 74 76 150 04:40 3 1 4 16:00 74 76 150 04:40 3 1 4 16:00 74 76 150 04:40 3 1 4 16:00 74 76 150 04:40 3 1 7 7 7 7 7 7 7 7 7	01:15																			
02:00 3			24		10					24			227		200					602
02:15 7 2 2 9 14:15 85 76 166 02:45 4 17 7 16 11 33 14:30 73 309 53 279 126 588 03:00 3 2 2 5 5 15:00 82 699 1551 03:15 3 2 0 5 15:00 82 699 1551 03:15 3 2 0 5 15:00 82 699 1551 03:15 3 2 0 5 15:00 82 699 1551 03:15 3 2 0 5 15:00 82 699 1551 03:35 3 2 11 4 11 6 2 22 15:45 82 799 161 04:00 3 1 1 4 11 6 22 15:45 82 799 161 04:00 3 1 1 4 11 6 16:15 83 91 170 04:30 5 3 3 8 16:30 80 74 154 04:30 5 3 3 8 16:30 80 74 154 04:30 5 5 3 8 13 22 13 9 16:45 84 221 72 313 156 634 05:00 2 6 8 8 13 21 39 16:45 84 221 72 313 156 634 05:00 2 6 8 8 17:00 84 58 142 05:00 12 6 8 8 17:00 84 58 142 05:00 12 6 8 8 17:00 84 58 142 05:00 12 6 8 8 17:00 84 58 142 05:00 12 6 8 8 142 05:00 12 6 8 8 142 05:00 12 6 8 8 17:00 84 58 142 06:45 64 229 45 119 109 348 18:45 79 92 12 12 12 12 12 12 12 12 12 12 12 12 12			21		10					31			337		266					603
02-45																				
03:00 3 2 5 15:00 82 69 15:1																				
03:15 3 2 2 5 15:15 82 79 16:16 03:30 3 3 3 3 6 6 15:30 72 32:5 15:5 137 03:45 2 11 4 11 6 6 22 15:45 85 321 66 279 15:5 15:5 15:0 04:15 5 1 1 6 16:15 83 91 174 04:21 5 3 3 8 8 16:30 83 91 174 04:41 5 13 26 8 13 21 39 16:45 84 321 72 313 15:6 634 05:00 12 6 6 8 8 7 17:00 84 85 85 112 05:00 12 6 7 8 8 17:00 84 85 85 112 05:00 12 6 7 8 8 17:00 84 85 85 112 05:00 12 17 9 17 9 17:00 16			17		16					33			309		279					588
03:30 3 3 3 6 15:30 72 65 137 04:00 3 1 4 16:00 74 76 150 04:00 3 1 4 16:00 74 76 150 04:30 5 3 8 16:30 80 74 76 04:30 5 3 8 16:30 80 74 76 04:30 5 3 8 16:30 80 74 76 04:30 5 3 8 16:30 80 74 76 04:30 5 3 8 16:30 80 74 154 05:50 2 6 8 13 26 8 13 155 634 05:00 2 6 8 17:00 84 58 142 05:30 12 17 29 17:13 84 56 140 05:30 12 17 29 17:30 106 75 241 181 06:45 29 65 13 41 42 106 17:30 106 75 241 181 06:30 8 9 107 18:30 77 9 120 06:45 64 229 45 19 109 348 18:45 76 300 59 220 135 520 07:00 49 44 9 33 19:00 46 49 9 5 07:15 5 72 123 19:15 42 38 63 11 07:45 85 243 92 294 177 537 19:45 63 214 34 172 97 386 08:00 51 80 13 12 104 20:15 46 35 35 10 08:30 49 56 105 105 20:30 49 25 74 08:45 53 199 49 243 102 442 20:45 44 20:8 26 139 70 347 09:15 42 38 80 21:15 32 15 47 09:16 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:16 42 38 80 21:15 32 15 47 09:17 44 46 87 21:15 32 15 47 09:18 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 47 09:15 42 38 80 21:15 32 15 50 09:45 57 69 126 83 83 83 83 83 83 83 8																				
03:45 2 11 4 11 6 22 15:45 85 321 66 279 151 600 04:15 5 1 6 16:15 83 91 174 04:36 5 3 8 16:30 80 74 73 133 156 04:45 13 26 8 13 21 39 16:45 84 321 72 313 156 05:00 2 6 8 17:00 84 58 142 05:15 22 5 7 12 22 17:15 86 56 140 05:30 23 65 13 41 22 16 16:00 83 15:00 06:40 24 16 16 16 16 16 16:00 16:00 06:40 54 29 45 119 109 348 18:45 79 62 06:40 64 229 45 119 109 348 18:45 79 62 07:00 49 44 93 107 18:30 71 49 120 06:45 64 229 45 119 109 348 18:45 76 300 59 220 135 520 07:00 49 44 93 19:00 46 49 95 07:30 58 86 144 93 19:00 46 49 95 07:30 58 86 144 17:30 63 51 51 114 08:30 51 80 131 20:00 69 53 122 08:30 51 80 23 107 19:45 63 21 114 08:30 49 59 294 117 57 19:45 63 21 41 77 79 08:45 46 58 104 20:15 46 35 63 21 08:45 47 48 49 59 243 117 31 366 21:45 26 34 172 97 386 09:45 57 18 56 185 113 366 21:45 26 34 18 89 44 223 09:45 57 18 56 185 113 366 21:45 26 34 18 89 44 223 09:45 57 18 56 185 113 366 21:45 26 34 18 89 44 223 09:45 57 18 56 185 113 366 21:45 26 34 18 89 44 223 09:45 57 18 56 185 113 366 21:45 26 34 18 89 44 223 09:45 57 58 40 99 385 22:45 13 91 12 54 25 45 09:45 57 58 59 99 385 22:45 13 91 12 54 25 145 09:45 57 58 59 59 385 22:45 13 91 12 54 25 145 09:45 57 58 50 50 50 50 50 50 50																				
04:15 5		2	11		11					22	15:45		321		279					600
04:30 5 3 04:45 13 26 8 13 26 13 26 8 13 156 634																				
04:45 13 26 8 13 21 39 16:45 84 321 72 313 156 634																				
05:00			26		13					39			321		313					634
05:30										- 55			<u> </u>		010					- 55 .
05:45 29 65 13 41																				
Decomposition Continue Cont			C.F.		41					100			267		241					600
06:15 53 19 107 18:15 79 62 141 120 16:30 66:45 64 229 45 119 109 348 18:45 76 300 59 220 135 520 135 520 171 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 71 49 170 18:30 171 49 170 18:30 171 49 170 18:30 171 49 170 18:30 171 49 170 18:30 171 49 171 170 18:30 171 170 18:30 171 170 18:30 170 18:30 171 170 18:30 18:30 18:3			05		41					100			307		241					800
06:45 64 229 45 119 109 348 18:45 76 300 59 220 135 520																				
07:00	06:30	68		39								71								
07:15 51 72 123 19:15 42 38 80 07:45 85 243 92 294 177 537 19:45 63 214 34 172 97 386 08:00 51 80 131 20:00 69 53 122 08:15 46 58 104 20:15 46 35 81 08:30 49 56 105 42 20:30 49 25 74 08:45 53 19 49 243 102 442 20:45 44 208 26 139 70 347 09:00 41 46 87 21:00 40 27 67 09:15 42 38 80 21:15 32 15 47 09:30 41 45 86 21:30 36 29 65 09:45 57 181 56 185 113 366 21:45 26 134 18 89 44 223 10:00 55 50 105 22:00 34 11 45 10:15 58 40 98 22:15 27 17 44 10:30 34 49 49 83 22:30 17 14 31 10:45 49 196 50 189 99 385 22:45 13 91 12 54 25 145 11:10 57 69 247 134 481 23:45 9 53 6 39 15 92 TOTALS 1441 1386 2827 TOTALS 2951 2315 5266 SPUIT % 51.0% 49.0% 34.9% SPUIT % 56.0% 44.0% 65.1% AM Peak Hour 11:45 07:15 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 AM Peak Hour 42 537 979 4-6 Peak Hour 17:00 16:00 16:00 7 - 9 Pek Hour 07:15 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 7 - 9 Pek Hour 07:15 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 7 - 9 Pek Hour 07:15 07:15 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 7 - 9 Pek Hour 07:15 07:15 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 7 - 9 Pek Hour 07:15			229		119					348			300		220					520
07:30																				
07:45																				
08:15 46 58 104 20:15 46 35 35 81 108:30 49 25 53 199 49 243 102 442 20:45 44 208 26 139 70 347 34	07:45	85	243	92	294				177	537		63	214	34	172				97	386
08:30																				
08.45 53 199 49 243 102 442 20.45 44 208 26 139 70 347																				
09:00			199		243					442			208		139					347
09:30 41 45 86 21:30 36 29 65 09:45 57 181 56 185 113 366 21:45 26 134 18 89 44 223 10:00 55 50 105 22:00 34 11 45 10:15 58 40 98 22:15 27 17 44 10:30 34 49 83 22:30 17 14 31 11:00 56 55 111 23:00 17 10 27 11:15 47 63 110 23:15 15 15 30 11:45 74 234 60 247 134 481 23:45 9 53 6 39 15 92 TOTALS 1441 1386 2827 TOTALS 2951 2315 566 SPLIT W 51.0% 49.0% <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																				
09:45 57 181 56 185 113 366 21:45 26 134 18 89 44 223																				
10:00 55 50 105 22:00 34 11 45 10:15 58 40 98 22:15 27 17 44 44 10:30 34 49 49 83 22:30 17 14 31 10:45 49 196 50 189 99 385 22:45 13 91 12 54 25 145 11:00 56 55 111 23:00 17 10 27 11:15 47 63 11:0 23:15 15 15 15 30 11:30 57 69 126 23:30 12 8 20 11:45 74 234 60 247 134 481 23:45 9 53 6 39 15 92 15 92 15 15 15 15 15 15 15 1			101		105					200			124		90					222
10:15 58			181		185					300			134		89					223
10:45																				
11:00 56 55 55 111 23:00 17 10 27 11:15 47 63 126 23:30 12 8 20 11:45 74 234 60 247 134 481 23:45 9 53 6 39 15 92 15 92 15 15 15 15 15 15 15 1																				
11:15			196		189					385			91		54					145
11:30																				
11:45 74 234 60 247 134 481 23:45 9 53 6 39 15 92																				
SPLIT % 51.0% 49.0% 34.9% SPLIT % 56.0% 44.0% 65.1% DAILY TOTALS NB SB EB WB WB Total AM Peak Hour 11:45 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 AM Pk Volume 292 330 575 PM Pk Volume 367 313 634 Pk Hr Factor 0.880 0.897 0.812 Pk Hr Factor 0.866 0.860 0.911 7 - 9 Volume 442 537 0 979 4 - 6 Volume 688 554 0 0 1242 7 - 9 Peak Hour 07:15 07:15 07:15 07:15 07:15 0 16:00 16:00 16:00 7 - 9 Pk Volume 245 330 0 575 4 - 6 Pk Volume 367 313 0 0 634			234	60	247				134	481		9	53		39				15	92
DAILY TOTALS NB SB EB WB Total 4,392 3,701 0 0 16:00 8,093 AM Peak Hour Pk Volume Pk Hr Factor O.880 292 330 575 PM Peak Hour Pk Volume Pk Hr Factor O.866 367 313 634 Pk Hr Factor O.880 0.897 0.812 Pk Hr Factor O.866 0.860 0.911 7 - 9 Volume Ad2 537 0 979 4 - 6 Volume G88 554 0 0 1242 7 - 9 Peak Hour O7:15 07:15 07:15 4 - 6 Peak Hour O7:15 17:00 16:00 16:00 7 - 9 Pk Volume O45 330 0 575 4 - 6 Pk Volume O45 367 313 0 0 634	TOTALS		1441		1386					2827	TOTALS		2951		2315					5266
AM Peak Hour 11:45 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 16:00	SPLIT %		51.0%		49.0%					34.9%	SPLIT %		56.0%		44.0%					65.1%
AM Peak Hour 11:45 07:15 07:15 PM Peak Hour 17:00 16:00 16:00 16:00				-0			NB	-	SB		EB		WB						To	tal
AM Pk Volume 292 330 575 PM Pk Volume 367 313 634 Pk Hr Factor 0.880 0.897 0.812 Pk Hr Factor 0.866 0.860 0.860 0.911 7 - 9 Volume 442 537 0 979 4 - 6 Volume 688 554 0 1242 7 - 9 Peak Hour 07:15 07:15 07:15 4 - 6 Peak Hour 17:00 16:00 16:00 7 - 9 Pk Volume 245 330 0 575 4 - 6 Pk Volume 367 313 0 0 634		D	AILY T	OTA	ILS _															
AM Pk Volume 292 330 575 PM Pk Volume 367 313 634 Pk Hr Factor 0.880 0.897 0.812 Pk Hr Factor 0.866 0.860 0.860 0.911 7 - 9 Volume 442 537 0 979 4 - 6 Volume 688 554 0 1242 7 - 9 Peak Hour 07:15 07:15 07:15 4 - 6 Peak Hour 17:00 16:00 16:00 7 - 9 Pk Volume 245 330 0 575 4 - 6 Pk Volume 367 313 0 0 634	AM Peak Hour		11:45		07:15					07:15	PM Peak Hour		17:00		16:00					16:00
Pk Hr Factor 0.880 0.897 0.812 Pk Hr Factor 0.866 0.860 0.891 7 - 9 Volume 442 537 0 979 4 - 6 Volume 688 554 0 1242 7 - 9 Peak Hour 07:15 07:15 4 - 6 Peak Hour 17:00 16:00 16:00 7 - 9 Pk Volume 245 330 0 575 4 - 6 Pk Volume 367 313 0 0 634																				
7 - 9 Peak Hour 07:15 07:15 07:15 4 - 6 Peak Hour 17:00 16:00 16:00 7 - 9 Pk Volume 245 330 0 575 4 - 6 Pk Volume 367 313 0 634										0.812	Pk Hr Factor									
7 - 9 Pk Volume 245 330 0 0 575 4 - 6 Pk Volume 367 313 0 0 634	7 - 9 Volume		442		537	0		0		979	4 - 6 Volume		688		554	()	0		1242
PK Hr Factor 0.721 0.897 0.000 0.812 PK Hr Factor 0.866 0.860 0.000 0.000 0.911																				
	Pk Hr Factor		0.721		0.897	0.000) (J.000		0.812	Pk Hr Factor		0.866		0.860	0.0	JUO	0.000		0.911

VOLUME

5 - Del Monte Blvd Bet. Beach Rd & Marina Greens Dr (36.696461, -121.794811)

	л	AILY 1	ΟΤΔ	IS_		NB		SB		EB		WB						То	tal
	<i>-</i>	AILI		(LJ		3,817	3	3,317		0		0						7,1	134
AM Period	NB		SB		EB	WB		то	TAL	PM Period	NB		SB		ЕВ	WI	3	TO	TAL
00:00 00:15	5 5		9 2					14 7		12:00 12:15	60 52		61 47					121 99	
00:30	5		3					8		12:30	63		40					103	
00:45	3	18	1	15				4	33	12:45	63	238	34	182				97	420
01:00 01:15	5 2		3 1					8 3		13:00 13:15	67 80		60 60					127 140	
01:30	5		0					5		13:30	58		55					113	
01:45 02:00	7 4	19	<u>3</u>	7				10 4	26	13:45 14:00	66 48	271	57 46	232				123 94	503
02:00	3		2					5		14:15	60		49					109	
02:30	3	4.5	7	4.2				10	20	14:30	72	242	68	207				140	450
02:45 03:00	5 4	15	<u>4</u> 5	13				9	28	14:45 15:00	63 77	243	44 69	207				107 146	450
03:15	3		2					5		15:15	83		70					153	
03:30	4	12	3	1.4				7	27	15:30	69	205	59	250				128	
03:45 04:00	<u>2</u> 4	13	3	14				<u>6</u> 7	27	15:45 16:00	76 60	305	52 64	250				128 124	555
04:15	4		5					9		16:15	70		75					145	
04:30	8	20	7 5	20				15 17	10	16:30 16:45	66 76	272	82 61	าดา				148	EE1
04:45 05:00	12 2	28	8	20				17 10	48	17:00	76 84	272	50	282				137 134	554
05:15	11		9					20		17:15	78		45					123	
05:30 05:45	13 25	51	25 19	61				38 44	112	17:30 17:45	87 78	327	60 53	208				147 131	535
06:00	40	31	19	01				59	112	18:00	56	327	36	206				92	333
06:15	44		27					71		18:15	74		51					125	
06:30 06:45	79 59	222	51 67	164				130 126	386	18:30 18:45	61 57	248	51 22	160				112 79	408
07:00	44	222	69	104				113	300	19:00	46	240	35	100				81	400
07:15	43		83					126		19:15	44		26					70	
07:30 07:45	42 71	200	81 73	306				123 144	506	19:30 19:45	47 48	185	37 27	125				84 75	310
08:00	44	200	60	300				104	300	20:00	44	103	33	123				77	310
08:15	43		47					90		20:15	40		22					62	
08:30 08:45	46 52	185	57 48	212				103 100	397	20:30 20:45	34 37	155	23 20	98				57 57	253
09:00	37	100	51					88	557	21:00	43	100	17	30				60	200
09:15	35		35					70		21:15 21:30	32		19					51	
09:30 09:45	41 47	160	46 46	178				87 93	338	21:30 21:45	43 25	143	24 14	74				67 39	217
10:00	40		49					89		22:00	35		14					49	
10:15 10:30	38 35		37 49					75 84		22:15 22:30	25 16		18					43 29	
10:30	52	165	49	177				84 94	342	22:45	14	90	13 12	57				29	147
11:00	45		53					98		23:00	23		13					36	
11:15 11:30	45 54		57 58					102 112		23:15 23:30	15 12		14 8					29 20	
11:45	63	207	64	232				127	439	23:45	7	57	8	43				15	100
TOTALS		1283		1399					2682	TOTALS		2534		1918					4452
SPLIT %		47.8%		52.2%					37.6%	SPLIT %		56.9%		43.1%					62.4%
		A 11.36-	-0=4			NB		SB		EB		WB						To	tal
	D	AILY 1	OIA	ILS.		3,817	:	3,317		0		0							134
AM Peak Hour		11:45		07:00					07:00	PM Peak Hour		17:00		16:00					16:15
AM Pk Volume		238		306					506	PM Pk Volume		327		282					564
Pk Hr Factor		0.944		0.922			0		0.878	Pk Hr Factor		0.940		0.860					0.953
7 - 9 Volume 7 - 9 Peak Hour		385 07:45		518 07:00					903 07:00	4 - 6 Volume 4 - 6 Peak Hour		599 17:00		490 16:00					1089 16:15
7 - 9 Pk Volume		204		306					506	4 - 6 Pk Volume		327		282					564
Pk Hr Factor		0.718		0.922	0.00	0.	.000		0.878	Pk Hr Factor		0.940		0.860	0.0	000	0.000		0.953

VOLUME

6 - Reservation Rd Bet. Dunes Dr & Beach Rd (36.695280, -121.802450)

	DAILY TOTAL	ç		NB		SB		EB	WB						То	otal
	DAILTIOTAL	J		0		0		4,367	5,033						9,4	400
AM Period	NB SB	EB		WB		_	TAL	PM Period	NB	SB	EB		WB			TAL
00:00 00:15		11 10		7 5		18 15		12:00 12:15			78 67		87 74		165 141	
00:30		5		9		14		12:30			62		77		139	
00:45		11	27	5	26	6	53	12:45			51	258	92	330	143	588
01:00 01:15		2 4		5 1		7 5		13:00 13:15			76 62		79 72		155 134	
01:30		6		3		9		13:30			69		97		166	
01:45		7	19	4	13	11	32	13:45			71	278	78	326	149	604
02:00 02:15		2 4		1 1		3 5		14:00 14:15			79 66		82 87		161 153	
02:30		2		1		3		14:30			74		99		173	
02:45		4	12	4	7	8	19	14:45			61	280	74	342	135	622
03:00 03:15		2 4		5 2		7 6		15:00 15:15			58 91		75 83		133 174	
03:30		1		1		2		15:30			78		86		164	
03:45		3	10	1	9	4	19	15:45			74	301	76	320	150	621
04:00 04:15		3 8		6 5		9 13		16:00 16:15			70 70		69 78		139 148	
04:30		4		9		13		16:30			102		75		177	
04:45		10	25	12	32	22	57	16:45			83	325	89	311	172	636
05:00 05:15		7 4		10 20		17 24		17:00 17:15			101 81		77 97		178 178	
05:30		7		31		38		17:30			101		76		177	
05:45		20	38	21	82	41	120	17:45			81	364	76	326	157	690
06:00 06:15		29 29		34 47		63 76		18:00 18:15			64 78		92 74		156 152	
06:30		41		65		106		18:30			69		76		145	
06:45		60	159	82	228	142	387	18:45			75	286	58	300	133	586
07:00 07:15		45 46		140 145		185 191		19:00 19:15			62 69		58 69		120 138	
07:30		58		76		134		19:30			68		70		138	
07:45		94	243	76	437	170	680	19:45			71	270	68	265	139	535
08:00 08:15		55 80		71 71		126 151		20:00 20:15			72 47		53 54		125 101	
08:30		59		90		149		20:30			53		44		97	
08:45		50	244	76	308	126	552	20:45			38	210	38	189	76	399
09:00 09:15		43 63		79 78		122 141		21:00 21:15			57 33		40 38		97 71	
09:30		48		65		113		21:30			40		31		71	
09:45		50	204	84	306	134	510	21:45			33	163	34	143	67	306
10:00 10:15		60 57		63 78		123 135		22:00 22:15			23 27		38 27		61 54	
10:30		67		78		145		22:30			16		18		34	
10:45		65	249	69	288	134	537	22:45			19	85	17	100	36	185
11:00 11:15		53 73		57 72		110 145		23:00 23:15			20 20		21 20		41 40	
11:15		73 50		66		116		23:15			20 17		10		40 27	
11:45		69	245	85	280	154	525	23:45			15	72	14	65	29	137
TOTALS			1475		2016		3491	TOTALS				2892		3017		5909
SPLIT %			42.3%		57.7%		37.1%	SPLIT %				48.9%		51.1%		62.9%
	DAILY TOTAL	c		NB		SB		EB	WB						To	otal
	DAILY TOTAL	5		0		0		4,367	5,033						9,4	400
AM Peak Hour			07:45		06:45		07:00	PM Peak Hour				16:30		13:45		16:30
AM Pk Volume			288		443		680	PM Pk Volume				367		346		705
Pk Hr Factor			0.766		0.764		0.890	Pk Hr Factor				0.900		0.874		0.990
7 - 9 Volume			487		745		1232	4 - 6 Volume				689		637		1326
7 - 9 Peak Hour 7 - 9 Pk Volume			07:45 288		07:00 437		07:00 680	4 - 6 Peak Hour 4 - 6 Pk Volume				16:30 367		16:45 339		16:30 705
Pk Hr Factor			0.766		0.753		0.890	Pk Hr Factor				0.900		0.874		0.990

VOLUME

7 - Reservation Rd Bet. Beach Rd & Del Monte Blvd (36.688492, -121.801161)

	DAILY TOTALS	:	-	NB		SB		EB	W	В					То	otal
	DAILT TOTAL	,		0		0		4,388	4,6	19					9,0	007
AM Period	NB SB	EB		WB			TAL	PM Period	NB	SB	EB		WB			TAL
00:00 00:15		5 9		10 10		15 19		12:00 12:15			79 87		76 78		155 165	
00:30		6		7		13		12:30			80		76		156	
00:45		5	25	6	33	11	58	12:45			49	295	69	299	118	594
01:00 01:15		4 3		6 4		10 7		13:00 13:15			72 66		74 78		146 144	
01:30		2		6		8		13:30			63		64		127	
01:45		6	15	1	17	7	32	13:45			74	275	75	291	149	566
02:00 02:15		2 0		5 3		7 3		14:00 14:15			78 55		82 68		160 123	
02:30		2		2		4		14:30			65		94		159	
02:45		3	7	2	12	5	19	14:45			71	269	67	311	138	580
03:00 03:15		2 4		1 4		3 8		15:00 15:15			76 91		75 76		151 167	
03:30		2		4		6		15:30			82		92		174	
03:45		1	9	6	15	7	24	15:45			77	326	78	321	155	647
04:00 04:15		3 4		7 7		10		16:00 16:15			68 72		82 89		150 161	
04:15		2		, 11		11 13		16:30			72 97		89 80		177	
04:45		6	15	11	36	17	51	16:45			88	325	83	334	171	659
05:00		6		8		14		17:00			103		92		195	
05:15 05:30		3 8		16 37		19 45		17:15 17:30			88 98		89 100		177 198	
05:45		12	29	29	90	41	119	17:45			91	380	81	362	172	742
06:00		22		37		59		18:00			68		93		161	
06:15 06:30		27 45		28 48		55 93		18:15 18:30			76 56		56 52		132 108	
06:45		48	142	53	166	101	308	18:45			80	280	72	273	152	553
07:00		52		66		118		19:00			60		71		131	
07:15 07:30		73 72		62 77		135 149		19:15 19:30			57 52		53 68		110 120	
07:45		83	280	56	261	139	541	19:45			42	211	60	252	102	463
08:00		81		74		155		20:00			61		51		112	
08:15		74		59		133		20:15			38		49		87	
08:30 08:45		69 48	272	83 68	284	152 116	556	20:30 20:45			60 38	197	49 31	180	109 69	377
09:00		53		57	201	110	330	21:00			48	137	45	100	93	377
09:15		57		58		115		21:15			42		26		68	
09:30 09:45		52 43	205	60 68	243	112 111	448	21:30 21:45			33 33	156	51 17	139	84 50	295
10:00		49	203	67	243	116	440	22:00			30	130	44	133	74	293
10:15		55		52		107		22:15			20		27		47	
10:30		65 57	226	63	245	128 120	471	22:30 22:45			24 25	00	44 15	120	68 40	220
10:45 11:00		71	226	63 52	245	123	471	23:00			25	99	15 17	130	40	229
11:15		67		71		138		23:15			15		14		29	
11:30		64 75	277	82 65	270	146 140	E 4.7	23:30			14 17	72	12	e e	26 29	120
11:45 TOTALS		/5	1502	05	270 1672	140	547 3174	23:45 TOTALS			1/	73 2886	12	55 2947	29	128 5833
SPLIT %			47.3%		52.7%		35.2%	SPLIT %				49.5%		50.5%		64.8%
JI 211 /0			77.370		JL.1 /0		33.2/0					73.370		30.370		
	DAILY TOTALS	5		NB		SB		EB	W	_						otal
				0		0		4,388	4,6	19					9,0	007
AM Peak Hour			11:45		11:30		11:45	PM Peak Hour				17:00		16:45		17:00
AM Pk Volume			321		301		616	PM Pk Volume				380		364		742
Pk Hr Factor 7 - 9 Volume	0	0	0.922 552		0.918 545		0.933 1097	Pk Hr Factor 4 - 6 Volume	0		0	0.922 705		0.910 696		0.937 1401
7 - 9 Volume 7 - 9 Peak Hour			552 07:30		08:00		07:45	4 - 6 Volume 4 - 6 Peak Hour				705 17:00		16:45		17:00
7 - 9 Pk Volume			310		284		579	4 - 6 Pk Volume				380		364		742
Pk Hr Factor	0.000 0	.000	0.934		0.855		0.934	Pk Hr Factor	0.00	00	0.000	0.922		0.910		0.937

Prepared by National Data & Surveying Services

VOLUME

8a - Reservation Rd Bet. Del Monte Blvd & Crescent Ave (E/O Seacrest Ave)

	DAILY TOTAL	c		NB		SB		EB	WB						To	otal
	DAILT TOTAL	LJ		0		0		9,876	9,336						19,	212
AM Period	NB SB	EB		WB		ТО	TAL	PM Period	NB	SB	EB		WB		TO	TAL
00:00		15		14		29		12:00			174		165		339	
00:15 00:30		19 10		7 11		26 21		12:15 12:30			187 169		154 163		341 332	
00:30		8	52	15	47	23	99	12:45			172	702	172	654	344	1356
01:00		8		5	.,	13	- 55	13:00			210		173		383	1000
01:15		11		7		18		13:15			202		156		358	
01:30 01:45		3 9	31	5 8	25	8 17	r.c	13:30 13:45			184 175	771	176	636	360 306	1407
02:00		8	31	2	25	10	56	14:00			183	771	131 152	030	335	1407
02:15		2		6		8		14:15			214		163		377	
02:30		4		6		10		14:30			160		184		344	
02:45 03:00		7 7	21	7 14	21	14 21	42	14:45 15:00			186 183	743	147 169	646	333 352	1389
03:00		5		5		10		15:15			197		165		362	
03:30		2		10		12		15:30			180		174		354	
03:45		6	20	20	49	26	69	15:45			200	760	160	668	360	1428
04:00		2 5		9 7		11		16:00 16:15			221		169		390	
04:15 04:30		9		, 17		12 26		16:30			207 204		147 168		354 372	
04:45		18	34	18	51	36	85	16:45			198	830	159	643	357	1473
05:00		20		20		40		17:00			213		163		376	
05:15		13		46		59		17:15			189		193		382	
05:30 05:45		33 32	98	65 70	201	98 102	299	17:30 17:45			230 201	833	181 135	672	411 336	1505
06:00		48	- 30	73	201	121	233	18:00			195	033	141	072	336	1303
06:15		55		109		164		18:15			163		122		285	
06:30		58		139		197		18:30			168		125		293	
06:45 07:00		67 91	228	146 133	467	213 224	695	18:45 19:00			161 148	687	121 109	509	282 257	1196
07:00 07:15		100		154		254		19:15			133		103		236	
07:30		128		157		285		19:30			108		83		191	
07:45		109	428	150	594	259	1022	19:45			108	497	92	387	200	884
08:00		92		141		233		20:00			117		80		197	
08:15 08:30		108 115		134 127		242 242		20:15 20:30			108 129		93 92		201 221	
08:45		98	413	129	531	227	944	20:45			98	452	73	338	171	790
09:00		130		113		243		21:00			99		75		174	
09:15		103		119		222		21:15			75		53		128	
09:30 09:45		103 129	465	143 140	515	246 269	980	21:30 21:45			86 64	324	51 43	222	137 107	546
10:00		122	403	156	313	278	380	22:00			61	324	43	222	104	340
10:15		125		132		257		22:15			47		43		90	
10:30		138	- 40	121		259	1000	22:30			41	400	43		84	2.57
10:45 11:00		127 168	512	147 147	556	274 315	1068	22:45 23:00			47 48	196	42 30	171	89 78	367
11:15		150		186		336		23:15			40		10		50	
11:30		152		172		324		23:30			22		21		43	
11:45		178	648	153	658	331	1306	23:45			21	131	14	75	35	206
TOTALS			2950		3715		6665	TOTALS				6926		5621		12547
SPLIT %			44.3%		55.7%		34.7%	SPLIT %				55.2%		44.8%		65.3%
	DAILYTOTAL			NB		SB		EB	WB						To	otal
	DAILY TOTAL	.5		0		0		9,876	9,336							212
AM Peak Hour			11:45		11:15		11:45	PM Peak Hour				17:00		16:45		16:45
AM Pk Volume			708		676		1343	PM Pk Volume				833		696		1526
Pk Hr Factor			0.947		0.909		0.985	Pk Hr Factor				0.905		0.902		0.928
7 - 9 Volume			841		1125		1966	4 - 6 Volume				1663		1315		2978
7 - 9 Peak Hour			07:30		07:15		07:15	4 - 6 Peak Hour				17:00		16:45		16:45
7 - 9 Pk Volume Pk Hr Factor			437 0.854		602 0.959		1031 0.904	4 - 6 Pk Volume Pk Hr Factor				833 0.905		696 0.902		1526 0.928
FR HI FACIUL	0.000	0.000	0.034		0.333		0.304	7 K III Pactor	0.000	0.000		0.303		0.302		0.320

VOLUME

8b - Reservation Rd Bet. Del Monte Blvd & California Ave (36.682573, -121.788824)

	DAILY TO	TAIS			NB		SB		EB		WB						To	otal
	DAILT TO	ALS			0		0		9,635		9,015						18,	,650
AM Period	NB SE	3	ЕВ		WB		TO	TAL	PM Period	NB		SB	EB		WB		то	TAL
00:00			23		10		33		12:00				154		150		304	
00:15			12		13		25		12:15				143		129		272	
00:30 00:45			15 18	68	10 13	46	25 31	114	12:30 12:45				161 171	629	139 146	564	300 317	1193
01:00			9	00	8	40	17	114	13:00				152	029	138	304	290	1195
01:15			11		5		16		13:15				147		129		276	
01:30			6		4		10		13:30				153		143		296	
01:45			6	32	5	22	11	54	13:45				155	607	147	557	302	1164
02:00 02:15			9 9		6 5		15 14		14:00 14:15				150 161		142 157		292 318	
02:30			4		5		9		14:30				164		153		317	
02:45			9	31	6	22	15	53	14:45				157	632	142	594	299	1226
03:00			1		4		5		15:00				162		141		303	
03:15			9		8		17		15:15				198		167		365	
03:30 03:45			6 8	24	6 8	26	12 16	50	15:30 15:45				170 203	733	167 168	643	337 371	1376
04:00			10	27	10	20	20	30	16:00				217	733	163	043	380	1370
04:15			6		11		17		16:15				198		180		378	
04:30			11		14		25		16:30				259		196		455	
04:45			18	45	27	62	45	107	16:45				207	881	191	730	398	1611
05:00 05:15			17 17		14 28		31 45		17:00 17:15				252 221		181 221		433 442	
05:30			28		37		65		17:30				239		176		415	
05:45			31	93	55	134	86	227	17:45				208	920	173	751	381	1671
06:00			57		66		123		18:00				178		153		331	
06:15			74		98		172		18:15				144		155		299	
06:30 06:45			86 95	312	130 123	417	216 218	729	18:30 18:45				148 117	587	118 115	541	266 232	1128
07:00			114	312	163	417	277	123	19:00				155	367	92	341	247	1120
07:15			161		177		338		19:15				127		95		222	
07:30			185		172		357		19:30				126		101		227	
07:45			157	617	176	688	333	1305	19:45				105	513	84	372	189	885
08:00 08:15			128 115		149 151		277 266		20:00 20:15				111 114		92 74		203 188	
08:30			125		160		285		20:30				85		78		163	
08:45			105	473	141	601	246	1074	20:45				77	387	67	311	144	698
09:00			95		121		216		21:00				89		53		142	
09:15			120		129		249		21:15				61		61		122	
09:30 09:45			113 107	435	97 142	489	210 249	924	21:30 21:45				72 66	288	55 47	216	127 113	504
10:00			96	433	136	403	232	324	22:00				62	200	46	210	108	304
10:15			116		92		208		22:15				52		37		89	
10:30			114		120		234		22:30				39		44		83	
10:45			126 139	452	107	455	233	907	22:45 23:00				52 48	205	41 17	168	93 65	373
11:00 11:15			139 133		129 134		268 267		23:15				48 28		17 29		55 57	
11:30			134		124		258		23:30				28		20		48	
11:45		:	138	544	138	525	276	1069	23:45				23	127	15	81	38	208
TOTALS				3126		3487		6613	TOTALS					6509		5528		12037
SPLIT %				47.3%		52.7%		35.5%	SPLIT %					54.1%		45.9%		64.5%
					NB		SB		EB		WB						T	tal
	DAILY TOT	TALS			O NB		<u>эв</u> 0		9,635		9,015							otal ,650
					-0		-0		9,035		9,013						10,	050
AM Peak Hour				07:15		07:00		07:00	PM Peak Hour					16:30		16:30		16:30
AM Pk Volume				631		688		1305	PM Pk Volume					939		789		1728
Pk Hr Factor				0.853		0.972		0.914	Pk Hr Factor					0.906		0.893		0.949
7 - 9 Volume				1090		1289		2379	4 - 6 Volume					1801		1481		3282
7 - 9 Peak Hour				07:15		07:00		07:00	4 - 6 Peak Hour					16:30		16:30		16:30
7 - 9 Pk Volume				631		688		1305	4 - 6 Pk Volume Pk Hr Factor					939		789		1728
Pk Hr Factor	0.000	0.000		0.853		0.972		0.914	PK HI FACTOR		0.000	0.00	J	0.906		0.893		0.949

VOLUME

9 - Reservation Rd Bet. California Ave & Salinas Ave (36.678740, -121.781255)

AM Period NB SB EB WB TOTAL PM Period NB SB EB WB TOTAL OLD NB SB EB BW TOTAL OLD NB SB TOTAL OLD NB SB EB BW TOTAL OLD NB SB TOTAL OL		DAILY TOTALS			NB		SB		EB	V	/B					To	tal
DOC 19		DAILT TOTALS			0		0		8,105	7,8	346					15,	951
DOI:15 12 12 24 12:15 12:0 86 206 200:00:45 18 64 14 49 32 113 12:45 131 477 123 437 254 914 10:10:00 122 8 20 13:30:00 139 121 26:00 10:11:15 10:10:16 6 16 13:15 129 11:15 244 10:10:15 10:10:16 6 16 13:15 129 11:15 244 22:00:10:15 20:20:00 8 5 6 24 12 60 13:45 112 511 122 462 334 973 20:20:00 8 5 24 12 60 13:45 112 11:15 23:46 23:40 20:20:00 2 4 6 6 14:30 118 115 23:40 20:20:00 2 4 6 14:30 118 115 23:30 20:245 8 8 27 5 20 13 47 14:45 13:15 13:50 13:80 129 507 500 10:30:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 4 6 15:00 13:8 121 25:9 20:23:00 2 2 4 6 15:00 13:8 121 25:9 20:23:00 2 2 4 6 15:00 13:8 121 25:9 20:23:00 2 2 4 6 15:00 13:8 121 25:9 20:23:00 2 2 4 6 15:00 13:8 121 25:9 20:23:00 2 2 4 6 15:00 13:8 121 25:9 20:23:00 2 2 4 15:45 45:15:15 15:45	AM Period	NB SB	EB		WB		ТО	TAL	PM Period	NB	SB	EB		WB		то	TAL
00:30																	
DOM-45																	
01:15	00:45		18	64	14	49	32	113				131	477	123	437	254	914
01:30																	
O1:45																	
O2:15	01:45		6	36	6	24	12	60	13:45			112	511	122	462	234	973
02:30																	
02:45 8 27 5 20 13 47 14:45 131 506 129 507 260 1013																	
03:15 6	02:45		8	27	5	20	13	47	14:45			131	506	129	507	260	1013
03:30 5																	
0345 8																	
Od-15	03:45		8	21	7	24	15	45	15:45			173	629	139	538	312	1167
04:30																	
October Octo																	
05:15 05:30 17 26 31 05:45 23 35 35 35 35 35 35 35 35 35 35 35 35 35			17	45	26	50	43	95				174	753		598	342	1351
05:30 05:45 26 35 35 06:00 31 55 42 111 70 57 111 17,20 181 18:00 194 167 167 121 121 288 167 167 167 121 288 167 167 167 121 288 167 167 167 167 167 167 167 167 168 168 168 168 168 168 168 168 168 168							_										
O5:45																	
06:15 06:30 64 81 122 93 203 203 203 203 203 203 203 203 203 20				95		111	_	206					784		673		1457
06:30																	
06:45 93 291 138 418 231 709 18:45 91 508 92 449 183 957 07:00 102 153 255 19:00 113 84 197 07:15 131 176 307 19:15 104 104 208 07:30 171 168 339 19:30 98 92 190 07:45 154 558 171 668 325 1226 19:45 93 408 76 356 169 764 08:00 138 149 287 20:00 85 78 163 08:15 97 136 233 20:15 94 66 160 160 764 163 08:35 78 163 163 08:35 78 163 98 20:45 58 303 64 272 122 575 169 08:45 58 303 64																	
07:15 131 176 337 19:15 104 104 208 208 171 168 339 19:30 98 92 190				291		418		709					508		449		957
07:30 171 168 339 19:30 98 92 190 764 08:00 138 149 287 20:00 85 78 163 366 169 764 08:15 97 136 233 20:15 94 66 160 160 180 <th></th>																	
07:45 154 558 171 668 325 1226 19:45 93 408 76 356 169 764 08:00 138 149 287 20:00 85 78 163 08:15 97 136 233 20:15 94 66 160 08:30 110 142 252 20:30 66 64 130 08:45 87 432 121 548 208 980 20:45 58 303 64 272 122 575 09:00 74 111 185 21:00 68 52 108 90:30 198 21:15 56 52 108 90:30 106 75 181 21:30 61 49 110 90:35 91 100 82 100 44 42 86 100 100 82 100 182 22:00 44 42 86 10:3																	
08:00 138 149 287 20:00 85 78 163 08:15 97 136 233 20:15 94 66 160 08:30 110 142 252 20:30 66 64 130 08:45 87 432 121 548 208 980 20:45 58 303 64 272 122 575 09:00 74 111 185 21:00 68 52 120 09:15 95 103 198 21:15 56 52 108 09:30 106 75 181 21:30 61 49 110 09:45 74 349 125 414 199 763 21:45 53 238 42 195 95 433 10:00 82 100 182 22:00 44 42 86 10:30 91 103 194				558		668		1226					408		356		764
08:30 08:45 110 87 142 42 252 121 258 208 20:30 980 20:35 20:45 66 58 64 303 64 64 272 122 130 575 09:00 09:15 09:30 74 106 111 106 188 75 21:00 188 68 21:15 21:30 56 61 61 61 49 110 52 108 108 68 66 66 64 64 67 120 120 108 68 52 108 61 61 61 61 61 61 61 61 61 61 61 61 61			138		149												
08:45 87 432 121 548 208 980 20:45 58 303 64 272 122 575 09:00 74 111 185 21:00 68 52 120 09:15 95 103 198 21:15 56 52 108 09:30 106 75 181 21:30 61 49 110 09:45 74 349 125 414 199 763 21:45 53 238 42 195 95 433 10:00 82 100 182 22:00 44 42 86 10:15 88 71 159 22:15 40 36 76 10:30 91 103 194 22:30 27 46 73 10:45 104 365 87 361 191 726 22:45 44 155 37 161 81 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>																	
09:00 74 111 185 21:00 68 52 120 09:15 95 103 198 21:15 56 52 108 09:30 106 75 181 21:30 61 49 110 09:45 74 349 125 414 199 763 21:45 53 238 42 195 95 433 10:00 82 100 182 22:00 44 42 86 10:15 88 71 159 22:15 40 36 76 10:30 91 103 194 22:30 27 46 73 10:45 104 365 87 361 191 726 22:45 44 155 37 161 81 316 11:00 107 91 198 23:00 49 17 56 11:30 106 109 215				432		548		980					303		272		575
09:30 09:45 106 74 75 349 181 125 21:30 414 21:30 199 61 763 49 53 110 238 42 195 150 95 433 10:00 10:15 10:30 10:45 82 10:15 88 10 10:30 10:45 159 10:30 10:45 22:00 10:45 10:45 44 10:30 10:45 10:45 40 10:30 10:45 10:45 10:45 10:45 36 10:45	09:00		74		111		185		21:00			68		52		120	
09:45 74 349 125 414 199 763 21:45 53 238 42 195 95 433 10:00 82 100 182 22:00 44 42 86 10:15 88 71 159 22:15 40 36 76 10:30 91 103 194 22:30 27 46 73 10:45 104 365 87 361 191 726 22:45 44 155 37 161 81 316 11:00 107 91 198 23:00 49 17 66 11:15 106 109 215 23:15 27 27 54 41 11:30 11:45 106 216 23:30 26 23 49 29 49 17 54 41 11:45 103 426 123 852 23:45 22 124 18 85 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>																	
10:00 82 100 182 22:00 44 42 86 10:15 88 71 159 22:15 40 36 76 10:30 91 103 194 22:30 27 46 73 10:45 104 365 87 361 191 726 22:45 44 155 37 161 81 316 11:00 107 91 198 23:00 49 17 66 66 11:15 106 109 215 23:15 27 27 54 54 54 11:30 110 106 216 23:30 26 23 49 49 11:45 11:45 103 426 123 852 23:45 22 124 18 85 40 209 TOTALS 2709 3113 5822 TOTALS 53.3% 46.7% 63.5% SPLIT % 46.5% 53.5% 53.5% SPLIT % 53.3% 46.7% 63.5%				349		414		763					238		195		433
10:30 91 103 194 22:30 27 46 73 10:45 104 365 87 361 191 726 22:45 44 155 37 161 81 316 11:00 107 91 198 23:00 49 17 66 11:15 106 109 215 23:15 27 27 27 54 11:30 110 106 216 23:30 26 23 49 11:45 103 426 120 426 223 852 23:45 22 124 18 85 40 209 TOTALS 2709 3113 5822 TOTALS 53.3% 46.7% 63.5% SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%				3.3				,,,,	22:00						133		.55
10:45 104 365 87 361 191 726 22:45 44 155 37 161 81 316 11:00 107 91 198 23:00 49 17 66 11:15 106 109 215 23:15 27 27 54 11:30 110 106 216 23:30 26 23 49 11:45 103 426 120 426 223 852 23:45 22 124 18 85 40 209 TOTALS 2709 3113 5822 TOTALS 5396 4733 10129 SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%																	
11:00 107 91 198 23:00 49 17 66 11:15 106 109 215 23:15 27 27 54 11:30 110 106 216 23:30 26 23 49 11:45 103 426 120 426 223 852 23:45 22 124 18 85 40 209 TOTALS 2709 3113 5822 TOTALS 5396 4733 10129 SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%				365		361		726					155		161		316
11:30 110 106 216 23:30 26 23 49 49 49 40 209 TOTALS 2709 3113 5822 TOTALS 5396 4733 10129 SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%	11:00		107	505	91	331	198	, _0	23:00			49		17	-01	66	0.10
11:45 103 426 120 426 223 852 23:45 22 124 18 85 40 209 TOTALS 2709 3113 5822 TOTALS 5396 4733 10129 SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%																	
TOTALS 2709 3113 5822 TOTALS 5396 4733 10129 SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%				426		426		852					124		85		209
SPLIT % 46.5% 53.5% 36.5% SPLIT % 53.3% 46.7% 63.5%			100		120									10			
NID CD ED W/D							C.D.				' D		- 3.270				
DAILY TOTALS NB SB EB WB Total		DAILY TOTALS															
8,105 7,846					- 0		U		8,105		540					13,	331
AM Peak Hour 07:15 07:00 07:15 PM Peak Hour 16:30 16:30 16:30																	
AM Pk Volume 594 668 1258 PM Pk Volume 822 694 1516 Pk Hr Factor 0.868 0.949 0.928 Pk Hr Factor 0.905 0.885 0.952																	
Pk Hr Factor 0.868 0.949 0.928 Pk Hr Factor 0.905 0.885 0.952 7 - 9 Volume 0 990 1216 2206 4 - 6 Volume 0 1537 1271 2808		0 0								()	0					
7 - 9 Peak Hour 07:15 07:00 07:15 4 - 6 Peak Hour 16:30 16:30 16:30																	
7 - 9 Pk Volume 0 0 594 668 1258 4 - 6 Pk Volume 0 0 822 694 1516	7 - 9 Pk Volume			594				1258	4 - 6 Pk Volume				822		694		1516
Pk Hr Factor 0.000 0.000 0.868 0.949 0.928 Pk Hr Factor 0.000 0.000 0.905 0.885 0.952	Pk Hr Factor	0.000 0.00	0	0.868		0.949		0.928	Pk Hr Factor	0.0	000	0.000	0.905		0.885		0.952

VOLUME

10 - Reservation Rd Bet. Salinas Ave & Imjin Pkwy (36.673038, -121.769838)

	DAILY TOTALS			NB		SB		EB	WB						To	otal
	DAILT TOTALS			0		0		8,148	8,185						16,	,333
AM Period	NB SB	EB		WB		_	TAL	PM Period	NB	SB	EB		WB			TAL
00:00 00:15		20 10		13 18		33 28		12:00 12:15			109 115		102 92		211 207	
00:30		15		16		31		12:30			109		133		242	
00:45		16	61	13	60	29	121	12:45			139	472	118	445	257	917
01:00 01:15		15 9		8 8		23 17		13:00 13:15			137 134		115 123		252 257	
01:30		9		7		16		13:30			124		86		210	
01:45		8	41	6	29	14	70	13:45			119	514	132	456	251	970
02:00 02:15		10 8		5 7		15 15		14:00 14:15			122 135		123 146		245 281	
02:30		4		4		8		14:30			148		117		265	
02:45		8	30	5	21	13	51	14:45			117	522	123	509	240	1031
03:00 03:15		4 4		2 10		6 14		15:00 15:15			140 165		125 143		265 308	
03:30		7		3		10		15:30			145		136		281	
03:45		9	24	6	21	15	45	15:45			180	630	143	547	323	1177
04:00 04:15		8 6		8 10		16 16		16:00 16:15			198 172		112 163		310 335	
04:30		13		9		22		16:30			207		176		383	
04:45		18	45	24	51	42	96	16:45			174	751	170	621	344	1372
05:00 05:15		16 17		13 23		29 40		17:00 17:15			227 202		168 211		395 413	
05:30		29		33		62		17:30			186		169		355	
05:45		38	100	36	105	74	205	17:45			168	783	158	706	326	1489
06:00 06:15		55 69		61 91		116 160		18:00 18:15			153 126		125 131		278 257	
06:30		83		130		213		18:30			107		105		212	
06:45		108	315	142	424	250	739	18:45			96	482	91	452	187	934
07:00 07:15		105 142		160 180		265 322		19:00 19:15			101 96		91 116		192 212	
07:30		189		185		374		19:30			93		106		199	
07:45		187	623	205	730	392	1353	19:45			95	385	104	417	199	802
08:00 08:15		162 101		167 147		329 248		20:00 20:15			84 76		84 82		168 158	
08:30		115		140		255		20:30			74		85		159	
08:45		92	470	130	584	222	1054	20:45			55	289	71	322	126	611
09:00 09:15		83 94		100 102		183 196		21:00 21:15			62 55		71 55		133 110	
09:30		104		71		175		21:30			54		60		114	
09:45		78	359	133	406	211	765	21:45			45	216	52	238	97	454
10:00 10:15		77 85		91 71		168 156		22:00 22:15			46 40		49 35		95 75	
10:30		88		97		185		22:30			19		47		66	
10:45		105 97	355	92 87	351	197	706	22:45 23:00			46 46	151	41	172	87 68	323
11:00 11:15		97 94		87 112		184 206		23:00 23:15			46 27		22 26		53	
11:30		108		100		208		23:30			25		32		57	
11:45		108	407	120	419	228	826	23:45			25	123	19	99	44	222
TOTALS			2830		3201		6031	TOTALS				5318		4984		10302
SPLIT %			46.9%		53.1%		36.9%	SPLIT %				51.6%		48.4%		63.1%
	DAILY TOTALS			NB		SB		EB	WB						To	otal
	DAILT TOTALS			0		0		8,148	8,185						16,	,333
AM Peak Hour			07:15		07:15		07:15	PM Peak Hour				16:30		16:30		16:30
AM Pk Volume			680		737		1417	PM Pk Volume				810		725		1535
Pk Hr Factor			0.899		0.899		0.904	Pk Hr Factor				0.892		0.859		0.929
7 - 9 Volume			1093 07:15		1314		2407	4 - 6 Volume 4 - 6 Peak Hour				1534 16:30		1327		2861
7 - 9 Peak Hour 7 - 9 Pk Volume			680		07:15 737		07:15 1417	4 - 6 Peak Hour 4 - 6 Pk Volume				810		16:30 725		16:30 1535
Pk Hr Factor	0.000 0.00	00	0.899		0.899		0.904	Pk Hr Factor	0.000	0.00	0	0.892		0.859		0.929

VOLUME

11 - Reservation Rd Bet. Imjin Pkwy & Blanco Rd (36.670013, -121.763302)

	DAILY TOTALS			NB		SB		EB		WB						To	otal
	DAILT TOTALS			0		0		15,760		16,170						31,	930
AM Period	NB SB	EB		WB		TO	TAL	PM Period	NB		SB	ЕВ		WB		ТО	TAL
00:00 00:15		34		16		50 37		12:00 12:15				185 200		207		392 420	
00:15		20 19		17 15		34		12:30				214		220 234		448	
00:45		24	97	16	64	40	161	12:45				237	836	237	898	474	1734
01:00		8		14		22		13:00 13:15				204		220		424	
01:15 01:30		17 19		12 13		29 32		13:30				244 238		272 208		516 446	
01:45		11	55	10	49	21	104	13:45				234	920	244	944	478	1864
02:00		7		9		16		14:00				227		241		468	
02:15 02:30		16 3		14 9		30 12		14:15 14:30				259 248		264 219		523 467	
02:45		16	42	11	43	27	85	14:45				266	1000	251	975	517	1975
03:00		6		10		16		15:00				288		234		522	
03:15 03:30		5 12		17 18		22 30		15:15 15:30				313 368		278 253		591 621	
03:45		16	39	17	62	33	101	15:45				381	1350	289	1054	670	2404
04:00		11		17		28		16:00				387		241		628	
04:15 04:30		14		42		56		16:15 16:30				365 366		298 330		663 696	
04:30		23 21	69	50 53	162	73 74	231	16:45				378	1496	309	1178	687	2674
05:00		25		36		61		17:00				404		308		712	
05:15		39		58		97		17:15				418		400		818	
05:30 05:45		49 68	181	100 102	296	149 170	477	17:30 17:45				350 328	1500	338 304	1350	688 632	2850
06:00		70	101	162	230	232	7//	18:00				327	1300	231	1330	558	2030
06:15		126		249		375		18:15				290		232		522	
06:30 06:45		143 166	505	303 353	1067	446 519	1572	18:30 18:45				217 223	1057	200 154	817	417 377	107/
07:00		184	303	416	1007	600	1572	19:00				189	1057	119	017	308	1874
07:15		280		421		701		19:15				180		153		333	
07:30		372	1200	375	1576	747	2776	19:30				169	720	123	F22	292	1200
07:45 08:00		364 295	1200	364 318	1576	728 613	2776	19:45 20:00				190 153	728	137 113	532	327 266	1260
08:15		256		338		594		20:15				149		102		251	
08:30		221	050	358	400=	579	2255	20:30				146	=00	127		273	4047
08:45 09:00		187 174	959	293 255	1307	480 429	2266	20:45 21:00				135 121	583	92 81	434	227	1017
09:15		188		242		430		21:15				124		88		212	
09:30		177		226		403		21:30				100		74		174	
09:45		166	705	253	976	419	1681	21:45 22:00				108	453	60	303	168	756
10:00 10:15		163 172		222 224		385 396		22:00 22:15				91 87		61 66		152 153	
10:30		169		214		383		22:30				58		61		119	
10:45		172	676	207	867	379	1543	22:45				74	310	50	238	124	548
11:00 11:15		206 172		187 198		393 370		23:00 23:15				60 55		35 50		95 105	
11:30		215		213		428		23:30				41		37		78	
11:45		196	789	232	830	428	1619	23:45				54	210	26	148	80	358
TOTALS			5317		7299		12616	TOTALS					10443		8871		19314
SPLIT %			42.1%		57.9%		39.5%	SPLIT %					54.1%		45.9%		60.5%
	DAILVEGEAGE			NB		SB		EB		WB						Tc	otal
	DAILY TOTALS			0		0		15,760		16,170						31,	930
AM Peak Hour			07:15		07:00		07:15	PM Peak Hour					16:30		16:45		16:30
AM Pk Volume			1311		1576		2789	PM Pk Volume					1566		1355		2913
Pk Hr Factor			0.881		0.936		0.933	Pk Hr Factor					0.937		0.847		0.890
7 - 9 Volume	0 (0	2159		2883		5042	4 - 6 Volume		0	0		2996		2528		5524
7 - 9 Peak Hour			07:15		07:00		07:15	4 - 6 Peak Hour					16:30		16:45		16:30
7 - 9 Pk Volume			1311		1576		2789	4 - 6 Pk Volume					1566		1355		2913
Pk Hr Factor	0.000 0.0	000	0.881		0.936		0.933	Pk Hr Factor		0.000	0.000		0.937		0.847		0.890

VOLUME

12a - 8th St Bet. 2nd Ave & 3rd Ave

Day: Wednesday Date: 9/12/2018 **City**: Marina **Project #**: CA18_8440_001

DAILY TOTALS	9	281 TOTAL 3 4 1 8 16 8 4 6 4 22
00:00 0 0 0 12:00 3 0 00:15 0 0 0 12:15 1 3 00:30 0 0 0 12:30 1 0 00:45 0 0 0 12:45 2 7 6 01:00 0 0 0 13:00 3 5 01:15 0 0 0 13:15 2 2 2 01:30 0 0 0 13:30 3 3 3 01:45 0 0 0 13:45 2 10 2 02:00 0 0 0 14:00 3 2 2 10 2		3 4 1 8 16 8 4 6 4 22
00:00 0 0 0 12:00 3 0 00:15 0 0 0 12:15 1 3 00:30 0 0 0 12:30 1 0 00:45 0 0 0 12:45 2 7 6 01:00 0 0 0 13:00 3 5 01:15 0 0 0 13:15 2 2 2 01:30 0 0 0 13:30 3 2 10 2 10 2 2 10 2		3 4 1 8 16 8 4 6 4 22
00:30 00:45 0 0 0 12:30 2 1 0 01:00 01:10 01:15 0 0 0 13:00 3 3 5 01:15 01:30 01:45 0 0 0 13:15 30 3 2 2 2 01:30 01:45 01:45 01:45 0 0 0 13:30 3 3		1 8 16 8 4 6 4 22
00:45 0 0 12:45 2 7 6 01:00 0 0 0 13:00 3 5 01:15 0 0 0 13:15 2 2 2 01:30 0 0 0 13:30 3 3 3 01:45 0 0 0 13:45 2 10 2 02:00 0 0 0 14:00 3 2 2 02:15 0 0 0 14:15 0 1 1 02:30 0 0 0 14:30 2 2 2 02:45 0 0 0 14:45 2 7 4		8 16 8 4 6 4 22
01:00 0 0 0 13:00 3 5 01:15 0 0 0 13:15 2 2 2 01:30 0 0 0 13:30 3 3 3 01:45 0 0 0 13:45 2 10 2 02:00 0 0 0 14:00 3 2 02:15 0 0 0 14:15 0 1 02:30 0 0 0 14:30 2 2 2 02:45 0 0 0 14:45 2 7 4		8 4 6 4 22
01:15 0 0 0 13:15 2 2 2 01:30 0 0 0 0 13:30 3 3 3 01:45 0 0 0 13:45 2 10 2 02:00 0 0 0 14:00 3 2	12	4 6 4 22
01:30 01:45 0 0 0 13:30 0 3 3 2 2 3 3 2 3 3 2 3 3 3 3 3 2 3 3 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	12	6 4 22
01:45 0 0 0 13:45 2 10 2 02:00 0 0 0 14:00 3 2 02:15 0 0 0 14:15 0 1 02:30 0 0 0 14:30 2 2 2 02:45 0 0 0 14:45 2 7 4	12	4 22
02:00 0 0 0 14:00 3 2 02:15 0 0 0 14:15 0 1 02:30 0 0 0 14:30 2 2 2 02:45 0 0 0 14:45 2 7 4	12	
02:15 0 0 0 14:15 0 1 02:30 0 0 0 14:30 2 2 02:45 0 0 0 14:45 2 7 4		5
02:30 0 0 0 14:30 2 2 2 02:45 0 0 0 14:45 2 7 4		1
		4
0.00	9	6 16
03:00 0 0 15:00 1 1		2
03:15 0 0 0 15:15 3 0		3
03:30 0 0 0 15:30 3 3		6
03:45 0 0 0 15:45 3 10 2	6	5 16
04:00 0 0 16:00 6 5		11
04:15 0 0 0 16:15 2 2 04:30 0 0 0 16:30 3 3		4 6
04.30 0 0 0 16.45 3 14 5	15	8 29
05:00	10	4
05:15 0 0 0 17:15 4 3	1	7
05:30 0 2 2 17:30 4 2		6
05:45 0 1 3 1 3 17:45 7 18 2	8	9 26
06:00 1 0 1 18:00 1 3		4
06:15 0 1 1 18:15 2 1		3
06:30 3 1 4 18:30 1 2 1 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	3
06:45 2 6 7 9 9 15 18:45 1 5 3 07:00 0 5 5 19:00 2 2 2	9	4 14
07.00 0 0 0 0 1 1 1 1 1 19:15 2 1		3
07:30 0 14 14 19:30 1 1 1		2
07:45 1 1 2 16 45 17 47 19:45 0 5 1	5	1 10
08:00 1 4 5 20:00 0 1		1
08:15 2 6 8 20:15 1 1		2
08:30 0 2 2 20:30 0 0		0
08:45 0 3 2 14 2 17 20:45 1 2 2	4	3 6
09:00 0 3 3 21:00 0 0		0
09:15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0
09:30 1 1 2 21:30 2 0 09:45 1 5 2 7 3 12 21:45 1 3 0		2 1 3
10:00 1 0 1 22:00 1 1 1		2
10:00 1 1 1 2 3 22:15 0 0 0		0
10:30 1 1 2 2:30 1 0		1
10:45 0 3 1 4 1 7 22:45 1 3 0	1	1 4
11:00 2 3 5 23:00 0 0		0
11:15 4 2 6 23:15 0 0		0
11:30 2 3 5 23:30 0 0		0
11:45		0
TOTALS 28 91 119 TOTALS 84	78	162
SPLIT % 23.5% 76.5% 42.3% SPLIT % 51.9%	48.1%	57.7%
DAILY TOTALS NB SB EB WB		Total
0 0 112 169		281
AM Peak Hour 11:15 07:00 07:00 PM Peak Hour 17:00	12:45	16:00
AM Pk Volume 10 45 47 PM Pk Volume 18	16	29
	0.667	0.659
7 - 9 Volume 0 0 5 59 64 4 - 6 Volume 0 0 32	23	55
	16:00	16:00
7 - 9 Pk Volume 0 4 45 47 4 - 6 Pk Volume 0 18	15	29
	0.750	0.659
·		

VOLUME

12b - 8th St Bet. 2nd Ave & Inter-Garrison Rd (36.657903, -121.794111)

	DAILY TOTALS			NB		SB		EB		WB						To	otal
	DAILT TOTALS		-	0		0		1,147		961						2,:	108
AM Period	NB SB	EB		WB		TO	TAL	PM Period	NB		SB	EB		WB		TO	TAL
00:00		0		3		3		12:00				21		36		57	
00:15		1		0		1		12:15				17		25		42	
00:30		0	2	0		0	_	12:30				28	00	17	0.2	45	405
00:45 01:00		11	2	0	4	2	6	12:45 13:00				27 24	93	14 25	92	41 49	185
01:00		0		0		0		13:15				17		23		49	
01:30		1		0		1		13:30				23		17		40	
01:45		0	2	1	1	1	3	13:45				9	73	19	84	28	157
02:00		0		0		0		14:00				13		19		32	
02:15		0		0		0		14:15				18		16		34	
02:30		1	_	0		1		14:30				12		15		27	407
02:45		0	11	0		0	1	14:45				18	61	16	66	34	127
03:00 03:15		0		0 0		0 0		15:00 15:15				14 14		19 18		33	
03:30		0		2		2		15:30				14		15		29	
03:45		2	2	0	2	2	4	15:45				16	58	30	82	46	140
04:00		1		0	_	1		16:00				22		36		58	
04:15		2		0		2		16:15				12		21		33	
04:30		1		2		3		16:30				14		34		48	
04:45		4	8	1	3	5	11	16:45				11	59	31	122	42	181
05:00		0		1		1		17:00				21		55		76	
05:15		1		1		2		17:15				12		34		46	
05:30 05:45		1 4	6	0	2	1 4	8	17:30 17:45				11 6	50	25 14	128	36 20	178
06:00		4	0	0		4		18:00				12	30	10	120	22	1/6
06:15		13		0		13		18:15				9		13		22	
06:30		19		4		23		18:30				9		9		18	
06:45		35	71	5	9	40	80	18:45				7	37	10	42	17	79
07:00		22		13		35		19:00				4		7		11	
07:15		57		6		63		19:15				3		14		17	
07:30		83		14		97		19:30				2		6		8	
07:45		53	215	12	45	65	260	19:45				3	12	11	38	14	50
08:00 08:15		52 54		13 12		65 66		20:00 20:15				4 2		6 4		10 6	
08:30		38		11		49		20:30				2		0		2	
08:45		31	175	12	48	43	223	20:45				1	9	4	14	5	23
09:00		13		13		26		21:00				3		1		4	
09:15		22		6		28		21:15				3		4		7	
09:30		14		11		25		21:30				0		6		6	
09:45		21	70	16	46	37	116	21:45				2	8	6	17	8	25
10:00		11		18		29		22:00				2		1		3	
10:15		14		9		23		22:15				0		0		0	
10:30 10:45		18 13	56	7 12	46	25 25	102	22:30 22:45				1 4	7	2 3	6	3 7	13
11:00		22	סכ	10	40	32	102	23:00				3		1	U	4	13
11:15		13		16		29		23:15				2		4		6	
11:30		14		12		26		23:30				1		1		2	
11:45		16	65	18	56	34	121	23:45				1	7	2	8	3	15
TOTALS			673		262		935	TOTALS					474		699		1173
SPLIT %			72.0%		28.0%		44.4%	SPLIT %					40.4%		59.6%		55.6%
				NB		SB		EB		WB						To	otal
	DAILY TOTALS			0		0		1,147		961							108
AM Peak Hour			07:15		11:45		07:30	PM Peak Hour					12:15		16:30		16:30
AM Pk Volume			245		96		293	PM Pk Volume					96		154		212
Pk Hr Factor			0.738		0.667		0.755	Pk Hr Factor					0.857		0.700		0.697
7 - 9 Volume	0 0		390		93		483	4 - 6 Volume		0		0	109		250		359
7 - 9 Peak Hour			07:15		07:30		07:30	4 - 6 Peak Hour					16:00		16:30		16:30
7 - 9 Pk Volume			245		51		293	4 - 6 Pk Volume					59		154		212
Pk Hr Factor	0.000 0.000		0.738		0.911		0.755	Pk Hr Factor		0.000	0	.000	0.670		0.700		0.697

VOLUME

13 - 9th St Bet. 1st Ave & 2nd Ave (36.662471, -121.810390)

Day: Wednesday Date: 5/23/2018 City: Marina
Project #: CA18_8264_013

	DAILY TOTA	ıs		NB		SB		EB		VB						otal
	5/4121 101/	.23		0		0		283	4	96					7:	79
AM Period	NB SB	EB	}	WB		_	TAL	PM Period	NB	SB		В	WB			TAL
00:00 00:15		0		0		0		12:00 12:15			1		9 8		16 21	
00:30		0		0		0		12:30			{		9		17	
00:45		0		0		0		12:45			4	32	10	36	14	68
01:00		0		1		1		13:00			4		6		10	
01:15 01:30		0		0 1		0 1		13:15 13:30			(7 12		13 17	
01:45		0		0	2	0	2	13:45			9		10	35	19	59
02:00		0		0		0		14:00					7		9	
02:15		0		0		0		14:15			1		10		22	
02:30 02:45		0		0		0		14:30 14:45			1		4 7	28	15 12	58
03:00		0		0		0		15:00					9	20	13	36
03:15		1		0		1		15:15			7	7	6		13	
03:30		0	_	1	_	1		15:30			(6		12	
03:45 04:00		0	1	0	1	0	2	15:45 16:00			<u>1</u>		4 1	25	15 14	53
04:15		0		0		0		16:15			7		3		10	
04:30		0		1		1		16:30					3		11	
04:45		0		1	2	1	2	16:45					4	11	8	43
05:00 05:15		0		0 0		0		17:00 17:15			1		5		15 6	
05:30		0		2		2		17:30			3		1 2		6 5	
05:45		0		0	2	0	2	17:45					5	13	7	33
06:00		0		1		1		18:00			4		4		8	
06:15		0		2		2		18:15 18:30			3		2		5	
06:30 06:45		2	2	3 3	9	5 3	11	18:45			1		2 1	9	3	18
07:00		1		11		12		19:00					2		3	10
07:15		2		30		32		19:15			3		2		5	
07:30		1	7	62	150	63	166	19:30			1		3	0	4	15
07:45 08:00		<u>3</u>	7	56 37	159	59 37	166	19:45 20:00					0	9	3	15
08:15		2		22		24		20:15			(3		3	
08:30		0		5		5		20:30			2		1		2	
08:45		2	4	10	74	12	78	20:45			(1	5	1	9
09:00 09:15		5 8		5 5		10 13		21:00 21:15			3		3 1		6 2	
09:30		6		5		11		21:30					1		1	
09:45		2	21	8	23	10	44	21:45			() 4	1	6	1	10
10:00		3		10		13		22:00			(0		0	
10:15 10:30		9 9		7 2		16 11		22:15 22:30			(0 1		0 1	
10:45		12	33	6	25	18	58	22:45			2		0	1	2	3
11:00		6		6	-	12		23:00				L	1		2	
11:15		8		3		11		23:15			(1		1	
11:30 11:45		3 6	23	5 5	19	8 11	42	23:30 23:45			()) 1	0 0	2	0	3
TOTALS			91	<u> </u>	316	11	407	TOTALS				192	U	180	<u> </u>	372
SPLIT %			22.4%		77.6%		52.2%					51.6%		48.4%		47.8%
JPLII 76			22.470		77.0%		32.2%	JFLII /6				31.0%)	40.4%		47.0%
	DAILY TOTA	LS		NB		SB		EB		VB						tal
				0		0		283	4	96					7.	79
AM Peak Hour			10:15		07:15		07:15	PM Peak Hour				15:45		13:30		12:00
AM Pk Volume			36		185		191	PM Pk Volume				39		39		68
Pk Hr Factor			0.750		0.746		0.758	Pk Hr Factor				0.750		0.813		0.810
7 - 9 Volume 7 - 9 Peak Hour			11		233		244	4 - 6 Volume				52 16:00		24		76
7 - 9 Peak Hour 7 - 9 Pk Volume			07:00 7		07:15 185		07:15 191	4 - 6 Peak Hour 4 - 6 Pk Volume				16:00 32		16:15 15		16:15 44
Pk Hr Factor			0.583		0.746		0.758	Pk Hr Factor				0.615		0.750		0.733
			2.500		10							0.013		200		

VOLUME

14a - 2nd Ave Bet. Divarty & Imjin Pkwy (36.6759649, -121.809362)

	D /	AILY T	OTA	VI C		NB	SB		EB		WB						To	otal
	יוט	AILY I	UIA	ALS		1,755	2,235	5	0		0						3,9	990
AM Period	NB		SB		ЕВ	WB	TO	TAL	PM Period	NB		SB		EB	WB		ТО	TAL
00:00	0		1				1		12:00	62		46					108	
00:15	1		2				3		12:15	40		41					81	
00:30 00:45	2 1	4	1 1	Е			3 2	9	12:30 12:45	36 41	170	47 42	176				83 83	355
01:00	1	4	1	5			2	9	13:00	29	179	42	176				71	333
01:15	1		3				4		13:15	33		30					63	
01:30	0		0				0		13:30	33		34					67	
01:45	2	4	0	4			2	8	13:45	26	121	36	142				62	263
02:00	0		1				1		14:00	33		43					76	
02:15 02:30	1 1		0 0				1		14:15 14:30	31 30		33 40					64 70	
02:45	0	2	0	1			0	3	14:45	31	125	35	151				66	276
03:00	0		1				1		15:00	27		27					54	
03:15	0		1				1		15:15	34		37					71	
03:30	2	_	0	_			2	_	15:30	33		34					67	
03:45 04:00	2 1	4	0	2			1	6	15:45 16:00	43 50	137	<u>44</u> 25	142				87 75	279
04:00	1		1				2		16:15	36		25 39					75 75	
04:30	2		2				4		16:30	40		45					85	
04:45	2	6	4	7			6	13	16:45	50	176	41	150				91	326
05:00	0		2				2		17:00	59		38					97	
05:15	1		4				5		17:15	60		23					83	
05:30 05:45	0 3	4	8 7	21			8 10	25	17:30 17:45	59 33	211	25 25	111				84 58	322
06:00	4	4	16	21			20		18:00	36	211	30	111				66	322
06:15	6		12				18		18:15	35		29					64	
06:30	3		16				19		18:30	32		32					64	
06:45	6	19	25	69			31	88	18:45	26	129	17	108				43	237
07:00	3		59				62		19:00	32		24					56	
07:15 07:30	20		81				101		19:15 19:30	23		19 24					42 48	
07:30	15 15	53	113 77	330			128 92	383	19:45	24 16	95	23	90				39	185
08:00	22	33	59	330			81	303	20:00	13	33	23	30				36	103
08:15	24		56				80		20:15	19		18					37	
08:30	15		49				64		20:30	15		22					37	
08:45	18	79	25	189			43	268	20:45	16	63	11	74				27	137
09:00	16		25				41		21:00	10		14					24	
09:15 09:30	16 22		26 28				42 50		21:15 21:30	14 9		13 14					27 23	
09:45	24	78	36	115			60	193	21:45	9	42	6	47				15	89
10:00	18		31				49		22:00	4		4					8	
10:15	18		31				49		22:15	5		10					15	
10:30	24		33				57		22:30	3		7					10	
10:45	19	79	38	133			57	212	22:45	<u>3</u>	15	4	25				7	40
11:00 11:15	28 33		35 26				63 59		23:00 23:15	4 3		3 1					7 4	
11:30	32		35				67		23:30	1		1					2	
11:45	28	121	37	133			65	254	23:45	1	9	5	10				6	19
TOTALS		453		1009				1462	TOTALS		1302		1226					2528
SPLIT %		31.0%		69.0%				36.6%	SPLIT %		51.5%		48.5%					63.4%
						NB	SB		EB		WB						T.	otal
	D/	AILY T	OTA	ALS		1,755	2,235		0		0 0							990
							2,233				- 0						3,:	, ,,,
AM Peak Hour		11:45		07:00				07:15	PM Peak Hour		16:45		12:00					16:30
AM Pk Volume		166		330				402	PM Pk Volume		228		176					356
Pk Hr Factor		0.669		0.730				0.785	Pk Hr Factor		0.950		0.936					0.918
7 - 9 Volume		132		519				651	4 - 6 Volume		387		261					648
7 - 9 Peak Hour		08:00		07:00				07:15	4 - 6 Peak Hour		16:45		16:15					16:30
7 - 9 Pk Volume		79		330				402	4 - 6 Pk Volume		228		163					356
Pk Hr Factor		0.823		0.730	0.000	0.0	UU	0.785	Pk Hr Factor		0.950		0.906	0.0	00	0.000		0.918

Prepared by National Data & Surveying Services

VOLUME

14b - 2nd Ave Bet. 8th St & Imjin Pkwy (N/O General Stilwell Dr)

	ח	AILY 1	ΓΩΤΛ	AIS.		NB		SB		EB		WB						T	otal
		AILI	1017	(LJ		8,231		8,744	ļ	0		0						16	,975
AM Period	NB		SB		EB	WB		ТО	TAL	PM Period	NB		SB		EB	W	В	TC	OTAL
00:00 00:15	4 7		4 4					8 11		12:00 12:15	157 148		158 192					315 340	
00:30	5		4					9		12:30	156		154					310	
00:45 01:00	7	23	3	13				8 6	36	12:45 13:00	132 175	593	188 181	692				320 356	1285
01:00	1		1					2		13:15	153		132					285	
01:30	1	7	1	0				2	1.0	13:30	162	C24	160	662				322	1206
01:45 02:00	2 5	7	3	9				6 8	16	13:45 14:00	134 178	624	189 165	662				323 343	1286
02:15	11		5					16		14:15	164		156					320	
02:30 02:45	37 1	54	2 1	11				39 2	65	14:30 14:45	173 164	679	161 142	624				334 306	1303
03:00	3		4					7		15:00	164		130					294	
03:15 03:30	6 2		5 3					11 5		15:15 15:30	167 194		165 163					332 357	
03:45	6	17	8	20				14	37	15:45	156	681	144	602				300	1283
04:00 04:15	7 4		15 5					22 9		16:00 16:15	191 143		138 176					329 319	
04:30	2		9					11		16:30	213		155					368	
04:45	6	19	10	39				16	58	16:45	182	729	137	606				319	1335
05:00 05:15	8 10		16 24					24 34		17:00 17:15	164 167		139 135					303 302	
05:30	17		28	405				45	456	17:30	172	650	149					321	1005
05:45 06:00	16 30	51	37 43	105				53 73	156	17:45 18:00	156 167	659	143 161	566				299 328	1225
06:15	35		58					93		18:15	158		158					316	
06:30 06:45	34 33	132	57 84	242				91 117	374	18:30 18:45	149 138	612	153 137	609				302 275	1221
07:00	40	132	76	242				116	3/4	19:00	137	012	132	003				269	1221
07:15	32		125					157		19:15 19:30	119		120					239	
07:30 07:45	40 43	155	137 178	516				177 221	671	19:45	140 108	504	107 98	457				247 206	961
08:00	51		147					198		20:00	123		92					215	
08:15 08:30	70 64		125 113					195 177		20:15 20:30	99 106		93 81					192 187	
08:45	73	258	114	499				187	757	20:45	99	427	77	343				176	770
09:00 09:15	82 85		118 115					200 200		21:00 21:15	123 96		69 64					192 160	
09:30	73		131					204		21:30	100		76					176	
09:45 10:00	88 94	328	164 117	528				252 211	856	21:45 22:00	86 101	405	44 52	253				130 153	658
10:15	114		159					273		22:15	39		29					68	
10:30	105	421	149	EOF				254	1016	22:30 22:45	31	104	36	120				67	214
10:45 11:00	108 137	421	170 152	595				278 289	1016	23:00	13 19	184	13 5	130				26 24	314
11:15	145		154					299		23:15	7		10					17	
11:30 11:45	194 144	620	138 152	596				332 296	1216	23:30 23:45	13 10	49	6 6	27				19 16	76
TOTALS		2085		3173					5258	TOTALS		6146		5571					11717
SPLIT %		39.7%		60.3%					31.0%	SPLIT %		52.5%		47.5%					69.0%
						ND		CD.										-	
	D	AILY 1	ΓΟΤΑ	LS		NB 8,231		SB 8,744		EB 0		<u> WВ</u> 0							otal 5,975
						8,231		0,744										10	ا د دور
AM Peak Hour		11:30		11:45					11:30	PM Peak Hour		16:00		12:15					16:00
AM Pk Volume Pk Hr Factor		643 0.829		656 0.854					1283 0.943	PM Pk Volume Pk Hr Factor		729 0.856		715 0.931					1335 0.907
7 - 9 Volume		413		1015	0		0		1428	4 - 6 Volume		1388		1172		0	0		2560
7 - 9 Peak Hour		08:00		07:15					07:30	4 - 6 Peak Hour		16:00		16:15					16:00
7 - 9 Pk Volume		258		587					791	4 - 6 Pk Volume		729		607					1335
Pk Hr Factor		0.884		0.824	0.00	JU	0.000		0.895	Pk Hr Factor		0.856		0.862	0	.000	0.00	J	0.907

VOLUME

15 - Beach Rd Bet. Reservation Rd & Del Monte Blvd (36.694665, -121.800146)

	DAILY TOTAL	c		NB		SB		EB	W	3_					То	tal
	DAILT TOTAL	,		0		0		2,578	3,03	3					5,6	511
AM Period	NB SB	ЕВ		WB		TO	TAL	PM Period	NB	SB	EB		WB		TO	TAL
00:00 00:15		10		8		18 8		12:00 12:15			42 32		47 47		89 79	
00:15		5 5		3 3		8		12:30			34		40		79 74	
00:45		6	26	3	17	9	43	12:45			36	144	64	198	100	342
01:00		6		1		7		13:00			45		34		79	
01:15 01:30		2 7		0		2 7		13:15 13:30			45 36		39 55		84 91	
01:45		3	18	5	6	8	24	13:45			36	162	51	179	87	341
02:00		2		0		2		14:00			55		37		92	
02:15		3		3		6		14:15			44		33		77	
02:30 02:45		2 3	10	2 2	7	4 5	17	14:30 14:45			42 39	180	68 53	191	110 92	371
03:00		5	10	2	,	7	17	15:00			37	100	51	131	88	3/1
03:15		0		3		3		15:15			51		53		104	
03:30		0	0	1	0	1	1.0	15:30 15:45			55	100	42	201	97	204
03:45 04:00		3	8	<u>2</u> 4	8	<u>5</u>	16	16:00			50 51	193	55 49	201	105 100	394
04:15		1		4		5		16:15			50		45		95	
04:30		0		6		6		16:30			34		47		81	
04:45		5	9	4	18	9	27	16:45			57 52	192	47 54	188	104 106	380
05:00 05:15		2 0		4 12		6 12		17:00 17:15			64		54 53		117	
05:30		5		24		29		17:30			53		59		112	
05:45		2	9	16	56	18	65	17:45			53	222	59	225	112	447
06:00		11		26		37		18:00			46		58		104	
06:15 06:30		6 18		26 39		32 57		18:15 18:30			40 50		45 46		85 96	
06:45		17	52	54	145	71	197	18:45			40	176	39	188	79	364
07:00		19		78		97		19:00			34		35		69	
07:15		26		78		104		19:15			48		33		81	
07:30 07:45		36 53	134	40 57	253	76 110	387	19:30 19:45			44 34	160	42 44	154	86 78	314
08:00		23	134	58	233	81	307	20:00			49	100	29	154	78	314
08:15		26		48		74		20:15			43		37		80	
08:30		30	110	61	245	91	225	20:30			30	150	37	122	67	201
08:45 09:00		31 28	110	48 41	215	79 69	325	20:45 21:00			36 38	158	20 25	123	56 63	281
09:15		21		42		63		21:15			32		17		49	
09:30		29		31		60		21:30			23		15		38	
09:45		26	104	45	159	71	263	21:45			30	123	27	84	57	207
10:00 10:15		31 30		47 41		78 71		22:00 22:15			20 25		18 14		38 39	
10:30		29		36		65		22:30			13		13		26	
10:45		34	124	42	166	76	290	22:45			17	75	12	57	29	132
11:00		33		42 45		75 97		23:00			19 12		11		30	
11:15 11:30		42 33		45 32		87 65		23:15 23:30			12 14		9 4		21 18	
11:45		29	137	45	164	74	301	23:45			7	52	7	31	14	83
TOTALS			741		1214		1955	TOTALS				1837		1819		3656
SPLIT %			37.9%		62.1%		34.8%	SPLIT %				50.2%		49.8%		65.2%
				NB		SB		EB	WE	2					.To	tal
	DAILY TOTAL	S		O IND		<u>эв</u> 0		2,578	3,03	_						511
AM Peak Hour			11:15		07:00		07:00	PM Peak Hour				16:45		17:15		17:00
AM Pk Volume Pk Hr Factor			146		253		387	PM Pk Volume Pk Hr Factor				226		229		447
7 - 9 Volume	_0	0	0.869 244		0.811 468		0.880 712	4 - 6 Volume	ρ		0	0.883 414		0.970 413		0.955 827
7 - 9 Peak Hour			07:15		07:00		07:00	4 - 6 Peak Hour				16:45		17:00		17:00
7 - 9 Pk Volume			138		253		387	4 - 6 Pk Volume				226		225		447
Pk Hr Factor	0.000	0.000	0.651		0.811		0.880	Pk Hr Factor	0.00	0 (0.000	0.883		0.953		0.955
		_														

VOLUME

16De Forest Rd Bet. Beach Rd & Reservation Rd (36.688357, -121.790823)

	D	AILY 1	OT/	AI S		NB		SB		EB		WB						To	otal
		AILI I	017	1LJ		857		1,004	ļ. <u> </u>	0		0						1,	861
AM Period	NB		SB		ЕВ	WB		ТО	TAL	PM Period	NB		SB		EB	W	В	TO	TAL
00:00 00:15	3		2					5 5		12:00 12:15	6 8		9 13					15 21	
00:30	2		0					2		12:30	8		13					21	
00:45 01:00	0	8	0	4				0	12	12:45 13:00	8 13	30	13 15	48				21 28	78
01:00	0		0					0		13:15	13		15 17					30	
01:30	0	1	1					1	2	13:30	8	40	15	64				23	112
01:45 02:00	1	11	0	1				1	2	13:45 14:00	15 24	49	17 12	64				32 36	113
02:15	0		1					1		14:15	23		20					43	
02:30 02:45	1 1	3	1 0	2				2 1	5	14:30 14:45	11 17	75	36 14	82				47 31	157
03:00	2		3					5		15:00	14		15					29	
03:15 03:30	0 1		0					0		15:15 15:30	10 11		18 22					28 33	
03:45	0	3	0	3				0	6	15:45	21	56	17	72				38	128
04:00 04:15	0		0 2					0		16:00 16:15	17 17		22 21					39 38	
04:30	0		1					1		16:30	24		12					36	
04:45	1	1	0	3				1	4	16:45	20	78	18	73				38	151
05:00 05:15	0		1 2					1 2		17:00 17:15	22 15		13 23					35 38	
05:30	2	•	4					6		17:30	17		19					36	4.40
05:45 06:00	2	3	<u>1</u> 1	8				3	11	17:45 18:00	18 15	72	15 14	70				33 29	142
06:15	1		12					13		18:15	13		14					27	
06:30 06:45	4 6	13	8 10	31				12 16	44	18:30 18:45	14 15	57	14 10	52				28 25	109
07:00	12	13	25	31				37	44	19:00	10	31	11	32				21	103
07:15	14		23 25					37		19:15 19:30	12		16					28	
07:30 07:45	26 43	95	33	106				51 76	201	19:45	14 8	44	12 15	54				26 23	98
08:00	22		22					44		20:00	9		8					17	
08:15 08:30	19 13		17 24					36 37		20:15 20:30	10 12		8 10					18 22	
08:45	7	61	8	71				15	132	20:45	3	34	9	35				12	69
09:00 09:15	12 8		12 13					24 21		21:00 21:15	7 8		10 7					17 15	
09:30	4		11					15		21:30	8		4					12	
09:45 10:00	10 13	34	11 16	47				21 29	81	21:45 22:00	3	27	2	29				12 5	56
10:15	11		12					23		22:15	3		6					9	
10:30	12	46	18	60				30	106	22:30 22:45	3	11	5	10				8 7	20
10:45 11:00	10 13	46	14 7	60				24	106	23:00	2	11	<u>5</u>	18				8	29
11:15	13		11					24		23:15	5		1					6	
11:30 11:45	6 13	45	22 19	59				28 32	104	23:30 23:45	1 3	11	2 3	12				3 6	23
TOTALS		313		395					708	TOTALS		544		609					1153
SPLIT %		44.2%		55.8%					38.0%	SPLIT %		47.2%		52.8%					62.0%
						MD		SB		EB								T	otal
	D	AILY 1	TOT A	ALS		NB 857		3B 1,004		0		WB 0							861
								1,004										-,	
AM Peak Hour		07:30		07:00					07:15 208	PM Peak Hour PM Pk Volume		16:15		13:45					13:45
AM Pk Volume Pk Hr Factor		110 0.640		106 0.803					208 0.684	Pk Hr Factor		83 0.865		85 0.590					158 0.840
7 - 9 Volume		156		177	0		0		333	4 - 6 Volume		150		143		0	0		293
7 - 9 Peak Hour		07:30		07:00					07:15	4 - 6 Peak Hour		16:15		16:00					16:00
7 - 9 Pk Volume Pk Hr Factor		110 0.640		106 0.803					208 0.684	4 - 6 Pk Volume Pk Hr Factor		83 0.865		73 0.830					151 0.968
FK III FACLUF		0.040		0.803	0.00		0.000		0.004	7 K III Factor		0.003		0.030	0.	000	0.000		0.300

VOLUME

17 - Crescent Ave Bet. Quebrada Del Mar Rd & Reservation Rd (36.686073, -121.789296)

	ח	AILY T	OT/	AI C		NB		SB		EB		WB						To	otal
	U	AILT	01,	4L3		473		608		0		0						1,	081
AM Period	NB		SB		EB	WB		ТО	TAL	PM Period	NB		SB		EB	V	/B	TO	TAL
00:00	2		0					2		12:00	11		8					19	
00:15 00:30	1 0		1 2					2		12:15 12:30	3 6		10 8					13 14	
00:45	1	4	2	5				3	9	12:45	12	32	7	33				19	65
01:00	0	•	0					0		13:00	3		8	- 55				11	
01:15	0		0					0		13:15	7		9					16	
01:30 01:45	0		0 0					0		13:30 13:45	3 5	18	8 11	36				11 16	54
02:00	1		0					1		14:00	6	10	8	30				14	- 34
02:15	0		0					0		14:15	13		8					21	
02:30	0		1	2				1		14:30	6	22	13	40				19	70
02:45 03:00	0	11	0	3				0	4	14:45 15:00	7 12	32	<u>11</u> 9	40				18 21	72
03:15	1		0					1		15:15	8		9					17	
03:30	0		0					0		15:30	10		11					21	
03:45	0	1	1	1				3	2	15:45 16:00	11	41	<u>6</u> 9	35				17	76
04:00 04:15	1 0		2 1					3 1		16:15	9 14		9 11					18 25	
04:30	0		Ō					0		16:30	13		10					23	
04:45	1	2	0	3				1	5	16:45	8	44	8	38				16	82
05:00	0		1					1		17:00	13		15					28	
05:15 05:30	1 0		2 0					3		17:15 17:30	7 16		11 21					18 37	
05:45	0	1	0	3				0	4	17:45	9	45	10	57				19	102
06:00	1		6					7		18:00	9		13					22	
06:15	6		5					11		18:15	7		6					13	
06:30 06:45	0	7	10 17	38				10 17	45	18:30 18:45	12 5	33	7 3	29				19 8	62
07:00	1		12	36				13	43	19:00	8	33	5	23				13	02
07:15	4		20					24		19:15	14		8					22	
07:30	9	24	19	66				28	07	19:30	4	22	4	27				8	50
07:45 08:00	<u>7</u> 7	21	15 15	66				22	87	19:45 20:00	<u>6</u> 5	32	<u>10</u> 3	27				16 8	59
08:15	5		7					12		20:15	4		6					10	
08:30	7		7					14		20:30	5		6					11	
08:45	5	24	9 4	38				14 12	62	20:45	7	21	5	20				12	41
09:00 09:15	8 6		4 11					17		21:00 21:15	10 5		14 3					24 8	
09:30	3		12					15		21:30	3		3					6	
09:45	5	22	6	33				11	55	21:45	10	28	3	23				13	51
10:00	3		13					16		22:00	5		4					9	
10:15 10:30	5 4		5 7					10 11		22:15 22:30	4 1		1 3					5 4	
10:45	3	15	5	30				8	45	22:45	5	15	4	12				9	27
11:00	5		6					11		23:00	5		1					6	
11:15	5		7					12		23:15	3		2					5	
11:30 11:45	9 4	23	6 8	27				15 12	50	23:30 23:45	1 2	11	0 8	11				1 10	22
TOTALS		121	3	247				12	368	TOTALS		352	3	361				10	713
SPLIT %		32.9%		67.1%					34.0%	SPLIT %		49.4%		50.6%					66.0%
2. 2. 7				2.12,3					2					, , , , , ,					
	D	AILY T	OT/	ALS		NB		SB		EB		WB							otal
						473		608		0		0						1,	081
AM Peak Hour		11:15		07:15					07:15	PM Peak Hour		16:15		17:00					17:00
AM Pk Volume		29		69					96	PM Pk Volume		48		57					102
Pk Hr Factor		0.659		0.863					0.857	Pk Hr Factor		0.857		0.679					0.689
7 - 9 Volume		45		104					149	4 - 6 Volume		89		95					184
7 - 9 Peak Hour		07:30		07:15					07:15	4 - 6 Peak Hour		16:15		17:00					17:00
7 - 9 Pk Volume Pk Hr Factor		28 0.778		69 0.863					96 0.857	4 - 6 Pk Volume Pk Hr Factor		48 0.857		57 0.679					102 0.689
PK HI PACTOR		0.778		0.863	0.000		0.000		0.857	FR III FACLUI		0.857		0.679	U	.000	0.00	J	0.089

VOLUME

18 - Crescent Ave Bet. Reservation Rd & Carmel Ave (36.683103, -121.792245)

	D	AILY 1	TOT/	AIS.		NB		SB		EB		WB						To	otal
		AILI	1017	\LJ		1,854		1,916		0		0						3,	770
AM Period	NB		SB		EB	WB		TOTA	L	PM Period	NB		SB		EB	V	/B		TAL
00:00 00:15	2		4 3					6 6		12:00 12:15	28 17		24 33					52 50	
00:30	3		3					6		12:30	26		29					55	
00:45 01:00	3	11	<u>4</u> 0	14				7 2	25	12:45 13:00	34 30	105	37 23	123				71 53	228
01:15	0		3					3		13:15	20		25					45	
01:30 01:45	3 0	4	6 2	11				9 2 1	15	13:30 13:45	28 23	101	20 28	96				48 51	197
02:00	1		0					1		14:00	28		29					57	
02:15 02:30	1 2		2 0					3 2		14:15 14:30	28 35		36 29					64 64	
02:45	3	7	0	2				3	9	14:45	20	111	32	126				52	237
03:00 03:15	1 2		2 1					3 3		15:00 15:15	36 30		32 34					68 64	
03:30	2	_	1					3	•	15:30	22		50					72	246
03:45 04:00	2	5	0	4				2	9	15:45 16:00	67 53	155	45 37	161				90	316
04:15	0		2					2		16:15	40		42					82	
04:30 04:45	3 7	12	0 2	4				3 9 1	16	16:30 16:45	39 28	160	44 49	172				83 77	332
05:00	3		3	•				6		17:00	31	100	44					75	332
05:15 05:30	7 4		3 5					10 9		17:15 17:30	40 37		45 46					85 83	
05:45	15	29	10	21				25 5	50	17:45	41	149	50	185				91	334
06:00 06:15	14 15		3 3					17 18		18:00 18:15	28 39		34 38					62 77	
06:30	16		5					21		18:30	33		27					60	
06:45 07:00	27 23	72	21 24	32				48 1 47	.04	18:45 19:00	25 20	125	39 39	138				64 59	263
07:15	36		35					71		19:15	25		31					56	
07:30 07:45	45 54	158	43 41	143				88 95 3	01	19:30 19:45	27 16	88	34 18	122				61 34	210
08:00	44	136	35	143				79	01	20:00	26	00	24	122				50	210
08:15 08:30	46 38		47 16					93 54		20:15 20:30	22 15		24 24					46 39	
08:45	27	155	19	117					72	20:45	14	77	21	93				35	170
09:00	21		20					41		21:00	11		19					30	
09:15 09:30	24 24		19 24					43 48		21:15 21:30	8 13		13 20					21 33	
09:45	12	81	16	79				28 1	60	21:45	8	40	10	62				18	102
10:00 10:15	19 19		16 21					35 40		22:00 22:15	8 6		13 8					21 14	
10:30	15		15					30		22:30	8		9					17	
10:45 11:00	16 18	69	20	72			-	36 1 38	41	22:45 23:00	6 12	28	<u>5</u> 7	35				11 19	63
11:15	26		14					40		23:15	6		9					15	
11:30 11:45	27 14	85	17 24	75				44 38 1	.60	23:30 23:45	4 5	27	8 5	29				12 10	56
TOTALS		688		574					262	TOTALS		1166		1342					2508
SPLIT %		54.5%		45.5%				33	3.5%	SPLIT %		46.5%		53.5%					66.5%
						NB		SB		EB		WB						T	otal
	D	AILY 1	TOTA	ALS		1,854		1,916		0		0							770
AM Peak Hour		07:30		07:30				0.7	7:30	PM Peak Hour		15:45		17:00					15:45
AM Pk Volume		189		166					55	PM Pk Volume		199		185					367
Pk Hr Factor		0.875		0.883					.934	Pk Hr Factor		0.743		0.925					0.819
7 - 9 Volume 7 - 9 Peak Hour		313 07:30		260 07:30					7:30	4 - 6 Volume 4 - 6 Peak Hour		309 16:00		357 17:00					666 17:00
7 - 9 Pk Volume		189		166					7.50 355	4 - 6 Pk Volume		160		185					334
Pk Hr Factor		0.875		0.883	0.00) (0.000	0.	.934	Pk Hr Factor		0.755		0.925	0	.000	0.000)	0.918

VOLUME

19 - Cardoza Ave Bet. Reservation Rd & Aaron Way (36.699215, -121.799711)

	DAI	LY T	ОΤΔ	ıs		NB		SB		EB		WB						Т	otal
	DAI		017			464		484		0		0							948
AM Period	NB		SB		EB	WB		_	TAL	PM Period	NB		SB		EB	١	ΝB		OTAL
00:00 00:15	0 1		0 0					0 1		12:00 12:15	6 6		8 7					14 13	
00:30	0		0					0		12:30	5		3					8	
00:45	0	1	0					0	1	12:45	9	26	10	28				19	54
01:00 01:15	1 0		0 1					1 1		13:00 13:15	8 6		5 6					13 12	
01:30	1		1					2		13:30	5		6					11	
01:45	1	3	0	2				1	5	13:45	6	25	7	24				13	49
02:00 02:15	0 0		0 0					0		14:00 14:15	7 6		4 8					11 14	
02:30	0		0					0		14:30	7		10					17	
02:45	0		0					0		14:45	8	28	6	28				14	56
03:00 03:15	0 1		0 0					0 1		15:00 15:15	15 16		10 6					25 22	
03:30	1		3					4		15:30	12		11					23	
03:45	0	2	1	4				1	6	15:45	6	49	4	31				10	80
04:00 04:15	0 0		1 1					1 1		16:00 16:15	11 10		12 9					23 19	
04:30	1		2					3		16:30	14		5					19	
04:45	0	1	1	5				1	6	16:45	11	46	9	35				20	81
05:00 05:15	1 1		4 2					5 3		17:00 17:15	18 17		8 4					26 21	
05:30	0		2					2		17:30	12		4					16	
05:45	0	2	5	13				5	15	17:45	18	65	7	23				25	88
06:00	0		3 5					3 5		18:00 18:15	10		8 5					18	
06:15 06:30	0 4		5 7					5 11		18:30	10 7		5 5					15 12	
06:45	1	5	16	31				17	36	18:45	6	33	8	26				14	59
07:00	2		19					21		19:00	5		2					7	
07:15 07:30	2 1		18 16					20 17		19:15 19:30	3 8		5 5					8 13	
07:45	4	9	9	62				13	71	19:45	7	23	5	17				12	40
08:00	5		4					9		20:00	10		4					14	
08:15 08:30	5 2		7 8					12 10		20:15 20:30	11 4		3 4					14	
08:45	6	18	13	32				19	50	20:45	8	33	2	13				10	46
09:00	3		6					9		21:00	3		6					9	
09:15 09:30	5 6		6 10					11 16		21:15 21:30	7 4		1 2					8	
09:45		16	9	31				11	47	21:45	4	18	2	11				6	29
10:00	1		8					9		22:00	4		3					7	
10:15 10:30	3 5		6 4					9		22:15 22:30	2 4		1 2					3 6	
10:30		20	8	26				9 19	46	22:45	2	12	1	7				3	19
11:00	2		8					10		23:00	1		2					3	
11:15 11:30	6 7		9 6					15 13		23:15 23:30	3 2		1 0					4 2	
11:30		20	9	32				14	52	23:45	3	9	0	3				3	12
TOTALS		97		238					335	TOTALS		367		246					613
SPLIT %	2:	9.0%		71.0%					35.3%	SPLIT %		59.9%		40.1%					64.7%
						NB		SB		EB		WB						-	otal
	DAI	LY T	OTA	LS		464		484		0		0							948
AM Dook Have	1	10.45		06.45					06:45	PM Peak Hour				15.20					
AM Peak Hour AM Pk Volume		10:45 26		06:45 69					06:45 75	PM Pk Volume		17:00 65		15:30 36					17:00 88
Pk Hr Factor).591		0.908					0.893	Pk Hr Factor		0.903		0.750					0.846
7 - 9 Volume		27		94	0		0		121	4 - 6 Volume		111		58		0	0		169
7 - 9 Peak Hour		08:00		07:00					07:00	4 - 6 Peak Hour		17:00		16:00					17:00
7 - 9 Pk Volume		18		62					71	4 - 6 Pk Volume Pk Hr Factor		65		35					88
Pk Hr Factor	0).750		0.816	0.00	70	0.000		0.845	rk ni factor		0.903		0.729		J.000	0.0	UU	0.846

VOLUME

20 - Beach Rd Bet. Del Monte Blvd & De Forest Rd (36.692456, -121.795546)

	DAILY TOTALS			NB		SB		EB	WB	_					To	otal
	DAILT TOTALS		•	0		0		1,639	1,37	0					3,0	009
AM Period	NB SB	EB		WB		TO	TAL	PM Period	NB	SB	EB		WB		ТО	TAL
00:00		2		3		5		12:00			24		17		41	
00:15 00:30		3 2		2 2		5 4		12:15 12:30			17 37		12 17		29 54	
00:30		2	9	1	8	3	17	12:45			24	102	17	63	41	165
01:00		1		0	Ü	1		13:00			19	102	20	- 03	39	103
01:15		0		0		0		13:15			27		19		46	
01:30 01:45		2 0	3	0 0		2	3	13:30 13:45			28 33	107	14 24	77	42 57	184
02:00		1	3	1		2	3	14:00			25	107	20	//	45	104
02:15		0		2		2		14:15			52		31		83	
02:30		1		1		2	_	14:30			31		59		90	
02:45		1	3	0	4	1	7	14:45 15:00			29	137	27	137	56	274
03:00 03:15		0 0		2 0		2		15:15			17 25		23 28		40 53	
03:30		0		3		3		15:30			41		19		60	
03:45		0		2	7	2	7	15:45			28	111	19	89	47	200
04:00		3		0		3		16:00			31		17		48	
04:15 04:30		0 1		0 0		0 1		16:15 16:30			38 34		27 28		65 62	
04:45		1	5	2	2	3	7	16:45			37	140	25	97	62	237
05:00		1		0		1		17:00			44		32		76	
05:15		0		4		4		17:15			39		22		61	
05:30 05:45		1 2	4	7 5	16	8 7	20	17:30 17:45			42 33	158	20 16	90	62 49	248
06:00		6	4	14	10	20	20	18:00			33	136	24	90	57	240
06:15		3		16		19		18:15			30		19		49	
06:30		3		10		13		18:30			20		13		33	
06:45		13	25	17	57	30	82	18:45 19:00			20	103	11	67	31	170
07:00 07:15		15 33		28 45		43 78		19:15			39 25		19 14		58 39	
07:30		49		35		84		19:30			15		6		21	
07:45		69	166	79	187	148	353	19:45			27	106	18	57	45	163
08:00		29		50		79		20:00			12		6		18	
08:15 08:30		16 9		25 24		41 33		20:15 20:30			16 20		6 9		22 29	
08:45		17	71	26	125	43	196	20:45			18	66	5	26	23	92
09:00		15		18		33		21:00			16		15		31	
09:15		11		15		26		21:15			21		6		27	
09:30 09:45		20 25	71	10 15	58	30 40	129	21:30 21:45			12 12	61	7 8	36	19 20	97
10:00		12	/1	17	36	29	129	22:00			11	61	6	30	17	97
10:15		19		11		30		22:15			7		4		11	
10:30		13		19		32		22:30			6		3		9	
10:45		14 19	58	14 21	61	28	119	22:45 23:00			6	30	5 4	18	11	48
11:00 11:15		19 14		19		40 33		23:15			8 8		3		12 11	
11:30		20		19		39		23:30			2		1		3	
11:45		28	81	19	78	47	159	23:45			4	22	2	10	6	32
TOTALS			496		603		1099	TOTALS				1143		767		1910
SPLIT %			45.1%		54.9%		36.5%	SPLIT %				59.8%		40.2%		63.5%
	DAUVECEAS			NB		SB		EB	WB						To	otal
	DAILY TOTALS)		0		0		1,639	1,37	_						009
AM Peak Hour			07:15		07:15		07:15	PM Peak Hour				16:45		14:15		13:45
AM Pk Volume			180		209		389	PM Pk Volume				162		140		275
Pk Hr Factor			0.652		0.661		0.657	Pk Hr Factor				0.920		0.593		0.764
7 - 9 Volume			237		312		549	4 - 6 Volume				298		187		485
7 - 9 Peak Hour			07:15		07:15		07:15	4 - 6 Peak Hour				16:45		16:15		16:15
7 - 9 Pk Volume Pk Hr Factor			180 0.652		209		389 0.657	4 - 6 Pk Volume Pk Hr Factor				162 0.920		112 0.875		265 0.872
PK III PACTOR	0.000		0.052		0.661		0.057	FR HI FACLUI	0.000		0.000	0.920		0.875		0.072

VOLUME

21 - California Ave Bet. Reservation Rd & Carmel Ave (36.678723, -121.786178)

	D	AILY 1	TOTA	ALS		NB		SB	EB		WB						_	otal
						1,895	2,	221	0		0						4,:	116
AM Period	NB		SB		EB	WB		TOTAL	PM Period	NB		SB		EB	W	3		TAL
00:00 00:15	3 1		5 3					8 4	12:00 12:15	42 30		42 54					84 84	
00:30	2	_	4					6	12:30	22		40					62	
00:45 01:00	2	7	<u>1</u> 4	13				2 20 6	12:45 13:00	27 29	121	43 35	179				70 64	300
01:15	0		8					8	13:15	33		44					77	
01:30 01:45	0 1	3	0 1	13				0 2 16	13:30 13:45	42 21	125	39 39	157				81 60	282
02:00	0		1					1	14:00	20	123	31	137				51	202
02:15 02:30	0		0 0					0 0	14:15 14:30	31 22		28 30					59 52	
02:45	2	2	2	3				4 5	14:45	32	105	41	130				73	235
03:00	1		0					1	15:00	35		36					71	
03:15 03:30	1 1		1 1					2 2	15:15 15:30	30 55		29 34					59 89	
03:45	2	5	2	4				4 9	15:45	37	157	31	130				68	287
04:00 04:15	2 1		1 0					3 1	16:00 16:15	30 29		36 29					66 58	
04:30	1		3					4	16:30	43		45					88	
04:45 05:00	2	5	<u>1</u> 2	5				2 10 4	16:45 17:00	42 48	144	43 45	153				85 93	297
05:15	4		3					7	17:15	49		39					88	
05:30 05:45	4 5	15	5 8	10				9 .3 33	17:30 17:45	40 42	179	34 35	152				74 77	332
06:00	11	15	11	18				. <u>3 55</u> !2	18:00	31	1/9	47	153				78	332
06:15	10		21					1	18:15	33		35					68	
06:30 06:45	11 13	45	26 30	88				37 3 133	18:30 18:45	32 30	126	43 36	161				75 66	287
07:00	27		26				5	i3	19:00	31		31					62	
07:15 07:30	19 40		48 51					57)1	19:15 19:30	25 18		23 31					48 49	
07:45	41	127	48	173			8	300	19:45	26	100	17	102				43	202
08:00 08:15	34 32		41 45					'5 '7	20:00 20:15	19 15		23 32					42 47	
08:15	25		45 35					50	20:15	20		32 24					47	
08:45	22	113	28	149				0 262	20:45	22	76	28	107				50	183
09:00 09:15	23 24		29 23					52 17	21:00 21:15	23 11		18 11					41 22	
09:30	21		25				4	ŀ6	21:30	21		16					37	
09:45 10:00	27 29	95	26 19	103				3 198 8	21:45 22:00	13 10	68	10 14	55				23	123
10:15	24		36					50	22:15	8		12					20	
10:30	29	107	22	102				51	22:30 22:45	6	22	10	F0				16	02
10:45 11:00	25 28	107	25 39	102				60 209 67	23:00	8	32	14 7	50				22 13	82
11:15	32		48					80	23:15	4		6					10	
11:30 11:45	24 34	118	36 28	151				60 62 269	23:30 23:45	2 8	20	4 5	22				6 13	42
TOTALS		642		822				1464	TOTALS		1253		1399					2652
SPLIT %		43.9%		56.1%				35.6%	SPLIT %		47.2%		52.8%					64.4%
	_	A 11.24-		116		NB		SB	EB		WB						To	otal
	- D	AILY 1	TOTA	ILS.		1,895		221	0		0							116
AM Peak Hour		07:30		07:15				07:30	PM Peak Hour		16:30		12:00					16:30
AM Pk Volume		147		188				332	PM Pk Volume		182		179					354
Pk Hr Factor 7 - 9 Volume		0.896 240		0.922 322	0		0	0.912 562	Pk Hr Factor 4 - 6 Volume		0.929 323		0.829 306		0	.0		0.952 629
7 - 9 Peak Hour		07:30		07:15				07:30	4 - 6 Peak Hour		16:30		16:30					16:30
7 - 9 Pk Volume		147		188				332	4 - 6 Pk Volume		182		172					354
Pk Hr Factor		0.896		0.922	0.00	00 (0.000	0.912	Pk Hr Factor		0.929		0.956	0.	000	0.000		0.952

VOLUME

22 - California Ave Bet. Carmel Ave & Reindollar Ave (36.675048, -121.788956)

	ח	AILY T	OT/	\IS		NB	9	В		EB		WB							То	tal
		AILI	017	(L)		1,813	2,	367		0		0							4,1	L80
AM Period	NB		SB		ЕВ	WB		TOTA	L	PM Period	NB		SB		ЕВ	,	WB		TO	TAL
00:00 00:15	0 0		2					2 3		12:00 12:15	32 35		34 46						66 81	
00:30	1		2					3		12:30	32		37						69	
00:45	0	1	3	10					l1	12:45	23	122	45	162					68	284
01:00 01:15	0 1		0 2					0 3		13:00 13:15	24 33		28 30						52 63	
01:30	0		2					2		13:30	20		42						62	
01:45	0	1	1	5					6	13:45	38	115	27	127					65	242
02:00 02:15	2		2 2					4 4		14:00 14:15	33 49		28 30						61 79	
02:30	0		0					0		14:30	33		59						92	
02:45 03:00	0	5	11	5				<u>2 1</u> 1	LO	14:45 15:00	30 43	145	36 46	153					66 89	298
03:15	1		0					1		15:15	45 46		37						83	
03:30	1		0					1		15:30	52		39						91	
03:45 04:00	3	5	0	2				4	7	15:45 16:00	39 60	180	32 33	154					71 93	334
04:00	0		2					2		16:15	54		29						83	
04:30	2		4					6		16:30	56		50						106	
04:45 05:00	4 0	7	<u>5</u>	11				9 <u>1</u> 4	L8	16:45 17:00	47 68	217	41 46	153					88 114	370
05:00 05:15	0		3					3		17:15	57		49						106	
05:30	4		7				1	.1		17:30	52		42						94	
05:45	7 9	11	15	29					10	17:45 18:00	37 29	214	53 39	190					90	404
06:00 06:15	9 11		12 28					!1 !9		18:15	29 37		35						68 72	
06:30	11		33				4	4		18:30	30		35						65	
06:45	13 14	44	44 62	117				67 <u>1</u> 0	61	18:45 19:00	29 6	125	18 22	127					47 28	252
07:00 07:15	21		62 97					18		19:15	8		22 27						28 35	
07:30	47		106					53		19:30	7		34						41	
07:45	88 24	170	79 70	344				67 5: 14	14	19:45 20:00	<u>6</u> 5	27	25 12	108					31 17	135
08:00 08:15	24		70 46				_	'0		20:15	5 10		17						27	
08:30	13		33				4	16		20:30	11		10						21	
08:45 09:00	18 24	79	35 30	184				3 20 34	63	20:45 21:00	<u>6</u> 4	32	19 14	58					25 18	90
09:00	12		35					17		21:15	4 14		9						23	
09:30	21		21				4	12		21:30	3		11						14	
09:45	27	84	33	119					03	21:45	5	26	12	46					17	72
10:00 10:15	19 19		30 24					19 13		22:00 22:15	6 3		7 17						13 20	
10:30	17		20				3	37		22:30	1		2						3	
10:45	11	66	25 19	99				6 10 60	65	22:45 23:00	1	11	2	34					9	45
11:00 11:15	31 30		32					50 52		23:15	0		2						2	
11:30	32		29				ϵ	51		23:30	3		2						5	
11:45	28	121	42	122			7		43	23:45	1	5	2	8					3	13
TOTALS		594		1047				16	541	TOTALS		1219		1320						2539
SPLIT %		36.2%		63.8%				39	.3%	SPLIT %		48.0%		52.0%						60.7%
	_	AUVA	OT4	\1¢		NB		В		EB		WB							To	tal
	ט	AILY T	UIA	4T2		1,813	2,	367		0		0							4,1	L80
AM Peak Hour		07:30		07:15				07	7:15	PM Peak Hour		16:30		17:00						16:30
AM Pk Volume		183		352					32	PM Pk Volume		228		190						414
Pk Hr Factor		0.520		0.830					796	Pk Hr Factor		0.838		0.896						0.908
7 - 9 Volume		249		528	0		0		77	4 - 6 Volume		431		343		0		0		774
7 - 9 Peak Hour		07:30		07:15					7:15	4 - 6 Peak Hour		16:30		17:00						16:30
7 - 9 Pk Volume Pk Hr Factor		183 0.520		352 0.830					796	4 - 6 Pk Volume Pk Hr Factor		228 0.838		190 0.896						414 0.908
I K III Factor		0.320		0.030	0.000	0.	000	0.	, 50	. Kill ractor		0.030		0.030		0.000		0.000		0.300

VOLUME

23 - California Ave Bet. Reindollar Ave & Imjin Pkwy

Day: Tuesday **Date:** 6/26/2018

City: Marina
Project #: CA18_8264_023

	D	AILY 1	rot <i>i</i>	VI C		NB		SB	EB		WB						To	tal
	וט	AILY	IUIA	ALS		2,868	3	,173	0		0						6,0	041
AM Period	NB		SB		EB	WB		TOTAL	PM Period	NB		SB		EB	W	3	ТО	TAL
00:00 00:15	2 5		1					3 6	12:00 12:15	52 46		34 63					86 109	
00:30	7		3					10	12:30	36		44					80	
00:45 01:00	2	16	<u>3</u>	8				5 24 6	12:45 13:00	39 40	173	49 56	190				88 96	363
01:15	4		1					5	13:15	52		32					84	
01:30 01:45	3 2	11	3 1	9				6 3 20	13:30 13:45	34 37	163	60 45	193				94 82	356
02:00	1	11	3					4	14:00	35	103	52	193				87	330
02:15 02:30	0 1		3					3 4	14:15 14:30	38 42		44 42					82 84	
02:45	3	5	1	10				4 15	14:45	50	165	29	167				79	332
03:00 03:15	0 2		2 3					2 5	15:00 15:15	27 56		43 43					70 99	
03:30	3		1					4	15:30	84		40					124	
03:45 04:00	0	7	2	10				6 17	15:45 16:00	69 73	236	40 34	166				109 107	402
04:15	1		3					4	16:15	69		48					117	
04:30	1 1	2	10	26				11 12 29	16:30 16:45	77 96	215	58 41	101				135	106
04:45 05:00	4	3	11 8	26				12 29 12	17:00	66	315	53	181				137 119	496
05:15	2		14					16	17:15	85 76		46					131 121	
05:30 05:45	3 2	11	13 20	55				16 22 66	17:30 17:45	76 79	306	45 48	192				121	498
06:00	7		41					48	18:00	76		38					114	
06:15 06:30	6 8		32 65					38 73	18:15 18:30	56 77		39 38					95 115	
06:45	7	28	71	209				78 237	18:45	47	256	56	171				103	427
07:00 07:15	10 19		74 102					84 121	19:00 19:15	53 53		37 35					90 88	
07:30	14		107	202			:	121	19:30	45	405	27	100				72	242
07:45 08:00	26 30	69	99 83	382				125 451 113	19:45 20:00	34 38	185	34 16	133				68 54	318
08:15	24		75					99	20:15	40		36					76	
08:30 08:45	24 22	100	70 60	288				94 82 388	20:30 20:45	35 42	155	21 13	86				56 55	241
09:00	22		54					76	21:00	48		19					67	
09:15 09:30	19 21		56 62					75 83	21:15 21:30	30 37		14 17					44 54	
09:45	24	86	46	218				70 304	21:45	24	139	18	68				42	207
10:00 10:15	29 47		46 36					75 83	22:00 22:15	28 32		17 15					45 47	
10:30	29		55					84	22:30	20		15					35	
10:45 11:00	34 39	139	42 41	179				76 318 80	22:45 23:00	11 9	91	<u>6</u> 2	53				17 11	144
11:15	33		40					73	23:15	19		8					27	
11:30 11:45	42 37	151	37 41	159				79 78 310	23:30 23:45	10 20	58	8 2	20				18 22	78
TOTALS		626		1553				2179	TOTALS		2242		1620					3862
SPLIT %		28.7%		71.3%				36.1%	SPLIT %		58.1%		41.9%					63.9%
						NB		SB	EB		WB						L	otal
	D	AILY 1	TOT <i>F</i>	ALS		2,868		,173	0		0							041
AM Peak Hour		11:30		07:15				07:15	PM Peak Hour		16:30		12:15					16:30
AM Pk Volume		177		391				480	PM Pk Volume		324		212					522
Pk Hr Factor 7 - 9 Volume		0.851 169		0.914	0		0	0.960 839	Pk Hr Factor 4 - 6 Volume		0.844		0.841 373		0	0		0.953 994
7 - 9 Volume 7 - 9 Peak Hour		07:45		670 07:15				839 07:15	4 - 6 Peak Hour		621 16:30		3/3 16:15					16:30
7 - 9 Pk Volume		104		391				480	4 - 6 Pk Volume		324		200					522
Pk Hr Factor		0.867		0.914	0.00	00 (0.000	0.960	Pk Hr Factor		0.844		0.862	0.	000	0.000		0.953

VOLUME

24 - California Dr Bet. Imjin Pkwy & 8th St (36.665131, -121.798043)

Day: Wednesday Date: 5/23/2018 City: Marina
Project #: CA18_8264_024

	D	AILY T	OTA	AI S		NB		SB		EB		WB						T	otal
		AIL! !	017	123		315		344		0		0						(559
AM Period	NB		SB		ЕВ	WB			TAL	PM Period	NB		SB		EB	W	В		OTAL
00:00 00:15	2		1					3 5		12:00 12:15	2 7		2 3					4 10	
00:30	2	•	3					5	4-	12:30	7	4.0	4					11	
00:45 01:00	0	9	<u>0</u>	6				2 4	15	12:45 13:00	2	18	<u>5</u> 4	14				7 6	32
01:15	3		0					3		13:15	4		3					7	
01:30 01:45	1	7	1 4	9				2 7	16	13:30 13:45	3 2	11	3 5	15				6 7	26
02:00 02:15	2		2					4		14:00	5 6		2					7	
02:15	3		1 2					4		14:15 14:30	1		2 4					8 5	
02:45 03:00	3	10	2	8				6 2	18	14:45 15:00	2	14	3	9				3 5	23
03:15	1		1					2		15:15	3		3 7					10	
03:30 03:45	1 3	5	2 2	7				3 5	12	15:30 15:45	8 5	18	8 8	26				16 13	44
04:00	3	<u> </u>	2					5	12	16:00	16	10	4	20				20	44
04:15 04:30	0		3 3					3 5		16:15 16:30	6 7		2 3					8 10	
04:45	0	5	3	11				3	16	16:45	2	31	1	10				3	41
05:00 05:15	3 0		0 0					3		17:00 17:15	8 2		9 5					17 7	
05:30	0		3					3		17:30	9		2					11	
05:45 06:00	3 4	6	<u>6</u> 3	9				9 7	15	17:45 18:00	2	23	<u>2</u> 5	18				6 7	41
06:15	2		6					8		18:15	2		2					4	
06:30 06:45	3	12	6 5	20				9	32	18:30 18:45	6 3	13	3 2	12				9 5	25
07:00	15		7					22	32	19:00	4	15	4					8	
07:15 07:30	5 7		15 21					20 28		19:15 19:30	8 5		4 3					12 8	
07:45	5	32	21	64				26	96	19:45	1	18	2	13				3	31
08:00 08:15	2		10 2					12 5		20:00 20:15	5 3		3 2					8 5	
08:30	1		3					4		20:30	4		5					9	
08:45 09:00	3	9	<u>6</u> 3	21				9 5	30	20:45 21:00	3	15	<u>3</u>	13				6 4	28
09:15	1		2					3		21:15	3		5					8	
09:30 09:45	5 1	9	5 2	12				10 3	21	21:30 21:45	2 5	13	3 4	13				5 9	26
10:00	3		1					4		22:00	3		2					5	
10:15 10:30	5 3		4 1					9 4		22:15 22:30	0 3		1 2					1 5	
10:45	1	12	5	11				6	23	22:45	3	9	2	7				5	16
11:00 11:15	2		1 3					3 4		23:00 23:15	2 1		1 2					3	
11:30	2	0	5	10				7	10	23:30	3	7	1	c				4	12
11:45 TOTALS	4	9 125	1	10 188				5	19 313	23:45 TOTALS	1	7 190	2	6 156				3	13 346
SPLIT %		39.9%		60.1%					47.5%	SPLIT %		54.9%		45.1%					52.5%
JELII /0		33.370		00.170					77.3/0					73.1/0					
	D	AILY T	OTA	ALS		NB		SB		EB		WB							otal
						315		344		0		0						- 6	559
AM Peak Hour		07:00		07:15					07:00	PM Peak Hour		15:30		15:15					15:15
AM Pk Volume Pk Hr Factor		32 0.533		67 0.798					96 0.857	PM Pk Volume Pk Hr Factor		35 0.547		27 0.844					59 0.738
7 - 9 Volume		41		85	0		0		126	4 - 6 Volume		54		28		0	0		82
7 - 9 Peak Hour 7 - 9 Pk Volume		07:00		07:15 67					07:00	4 - 6 Peak Hour		16:00		16:30					16:00
Pk Hr Factor		32 0.533		67 0.798					96 0.857	4 - 6 Pk Volume Pk Hr Factor		31 0.484		18 0.500					41 0.513
		2.300		330															

VOLUME

25 - Reindollar Ave Bet. Del Monte Blvd & California Ave (36.675646, -121.792872)

	DAILV	TOTALS			NB		SB		EB	\	VB						To	otal
	DAILI	IOIALS			0		0		1,124	1,	222						2,3	346
AM Period	NB	SB	EB		WB		TC	TAL	PM Period	NB		SB	EB		WB		TO	TAL
00:00			2		1		3		12:00				10		15		25	
00:15			3		1		4		12:15				13		11		24	
00:30 00:45			2 0	7	4 1	7	6 1	14	12:30 12:45				10 14	47	14 24	64	24 38	111
01:00			0		1	/	1	14	13:00				13	47	15	04	28	111
01:15			3		1		4		13:15				9		12		21	
01:30			0		2		2		13:30				8		21		29	
01:45			1	4	1	5	2	9	13:45				16	46	11	59	27	105
02:00			1		1		2		14:00				12		19		31	
02:15 02:30			2 2		0 1		2 3		14:15 14:30				18 21		18 21		36 42	
02:45			3	8	1	3	3 4	11	14:45				23	74	21	79	44	153
03:00			1		2		3		15:00				22	,,	21	75	43	133
03:15			1		2		3		15:15				17		17		34	
03:30			0		3		3		15:30				21		18		39	
03:45			2	4	2	9	4	13	15:45				29	89	28	84	57	173
04:00			1		2		3		16:00				19		18		37	
04:15			3		7		10		16:15				27		18		45	
04:30 04:45			1 2	7	8 8	25	9 10	32	16:30 16:45				25 23	94	15 16	67	40 39	161
05:00			5	/	10	25	15	52	17:00				<u>23</u>	94	17	0/	33	101
05:00 05:15			2		6		8		17:00 17:15				36		21		55 57	
05:30			4		12		16		17:30				23		21		44	
05:45			5	16	16	44	21	60	17:45				22	97	21	80	43	177
06:00			4		8		12		18:00				17		20		37	
06:15			3		15		18		18:15				17		13		30	
06:30			3		20		23		18:30				14		15		29	
06:45			5	15	22	65	27	80	18:45				7	55	12	60	19	115
07:00 07:15			10 25		26 24		36 49		19:00 19:15				23 14		10 17		33 31	
07:15 07:30			38		30		68		19:30				22		26		48	
07:45			45	118	39	119	84	237	19:45				24	83	23	76	47	159
08:00			19		37		56		20:00				17		15		32	
08:15			21		26		47		20:15				12		15		27	
08:30			13		22		35		20:30				24		10		34	
08:45			16	69	16	101	32	170	20:45				16	69	15	55	31	124
09:00			10		13		23		21:00				14		11		25	
09:15			9		11		20		21:15				17		11		28	
09:30 09:45			9 8	36	13 16	53	22 24	89	21:30 21:45				14 13	58	11 5	38	25 18	96
10:00			8	30	15	23	23	03	22:00				10	36	8	30	18	90
10:15			10		12		22		22:15				5		12		17	
10:30			11		10		21		22:30				4		2		6	
10:45			9	38	15	52	24	90	22:45				5	24	7	29	12	53
11:00			14		10		24		23:00				9		1		10	
11:15			10		9		19		23:15				3		2		5	
11:30			11 9	44	7 13	39	18 22	92	23:30				5 5	22	3 3	9	8 8	21
11:45			9		13		22	83	23:45				5		3		6	31
TOTALS				366		522		888	TOTALS					758		700		1458
SPLIT %				41.2%		58.8%		37.9%	SPLIT %					52.0%		48.0%		62.1%
					NB		SB		EB		VB						Te	otal
	DAILY	TOTALS			0		0											
					U		U		1,124	1,	222						Z,:	346
AM Peak Hour				07:15		07:30		07:15	PM Peak Hour					15:45		15:00		17:15
AM Pk Volume				127		132		257	PM Pk Volume					100		84		181
Pk Hr Factor				0.706		0.846		0.765	Pk Hr Factor					0.862		0.750		0.794
7 - 9 Volume	0	0		187		220		407	4 - 6 Volume		0	0		191		147		338
7 - 9 Peak Hour				07:15		07:30		07:15	4 - 6 Peak Hour					16:30		17:00		17:00
7 - 9 Pk Volume				127		132		257	4 - 6 Pk Volume					100		80		177
Pk Hr Factor				0.706		0.846		0.765	Pk Hr Factor					0.694		0.952		0.776
				2.700		2.3.0								2.03 F		1.302		

VOLUME

26 - Reindollar Ave Bet. California Ave & Carmel Ave (36.673436, -121.787956)

	DAILY TO	TALS		-	NB 0		SB 0		EB 1,186	W 1,30	_						otal 551
ANA Desired	ND C		-					TAL	·	•			-)A/D			
AM Period 00:00	NB S	В	EB		WB		0	TAL	PM Period 12:00	NB	SB		B	WB 14		33	TAL
00:15			3		0		3		12:15				13	18		31	
00:30			2		0		2		12:30			2	24	18		42	
00:45			0	5	0		0	5	12:45				.9 75	30	80	49	155
01:00			0		1		1		13:00 13:15				21	17		38	
01:15 01:30			2 0		0		2 0		13:30				.0 .9	16 15		36 34	
01:45			2	4	1	2	3	6	13:45				4 74	12	60	26	134
02:00			0		1		1		14:00				.9	22		41	
02:15			1		0		1		14:15				.5	20		35	
02:30 02:45			0 2	3	2 0	3	2	6	14:30 14:45				.8 20 72	27 20	89	45 40	161
03:00			1	3	2	3	3	0	15:00				29	19	69	48	101
03:15			2		1		3		15:15				31	18		49	
03:30			0		2		2		15:30				21	23		44	
03:45			0	3	2	7	2	10	15:45				22 103	18	78	40	181
04:00 04:15			1 0		3 3		4 3		16:00 16:15				32 34	25 22		57 56	
04:15			0		2		2		16:30				14	19		63	
04:45			1	2	4	12	5	14	16:45				34 144	13	79	47	223
05:00			0		6		6		17:00				33	10		43	
05:15			0		5		5		17:15				55	26		81	
05:30 05:45			1 2	3	4 13	28	5 15	31	17:30 17:45				27 32 147	20 24	80	47 56	227
06:00			2	3	9	20	11	31	18:00				32 147 32	14	80	46	221
06:15			6		13		19		18:15				22	10		32	
06:30			2		20		22		18:30			3	31	18		49	
06:45			3	13	37	79	40	92	18:45				4 99	15	57	29	156
07:00			4 16		54		58		19:00 19:15				.3 .5	13		26 25	
07:15 07:30			18		56 72		72 90		19:30				.5 20	10 15		25 35	
07:45			17	55	55	237	72	292	19:45				26 74	14	52	40	126
08:00			14		37		51		20:00				8	11		19	
08:15			14		30		44		20:15				8	13		21	
08:30 08:45			21 10	59	39 29	135	60 39	194	20:30 20:45				.2 8 36	5 10	39	17 18	75
09:00			10	33	20	133	30	154	21:00				.0	3	39	13	73
09:15			15		22		37		21:15				6	6		12	
09:30			11		18		29		21:30				8	4		12	
09:45			14	50	20	80	34	130	21:45				.0 34	3	16	13	50
10:00 10:15			12 9		19 16		31 25		22:00 22:15				6 8	8 2		14 10	
10:30			8		12		20		22:30				3	1		4	
10:45			15	44	17	64	32	108	22:45				7 24	5	16	12	40
11:00			10		17		27		23:00				7	2	-	9	
11:15			11		17		28		23:15				3	1		4	
11:30 11:45			15 13	49	24 10	68	39 23	117	23:30 23:45				1 3 14	1 0	4	2	18
TOTALS			13	290	10	715		1005	TOTALS				896	<u> </u>	650	,	1546
SPLIT %				28.9%		71.1%		39.4%	SPLIT %				58.0%	6	42.0%		60.6%
					AUD		CD-			100							
	DAILY TO	TALS			NB		SB		EB	W	_						otal
					0		0		1,186	1,30	65					2,	551
AM Peak Hour				11:45		07:00		07:00	PM Peak Hour				16:30		14:00		16:30
AM Pk Volume				69		237		292	PM Pk Volume				166		89		234
Pk Hr Factor				0.719		0.823		0.811	Pk Hr Factor				0.755		0.824		0.722
7 - 9 Volume	0	0		114		372		486	4 - 6 Volume	0		0	291		159		450
7 - 9 Peak Hour				07:45		07:00		07:00	4 - 6 Peak Hour				16:30		17:00		16:30
7 - 9 Pk Volume				66		237		292	4 - 6 Pk Volume				166		80		234
Pk Hr Factor	0.000	0.000		0.786		0.823		0.811	Pk Hr Factor	0.00	00	0.000	0.755		0.769		0.722

VOLUME

27 - Carmel Ave Bet. Del Monte Blvd & California Ave (36.681004, -121.794919)

	DAILY TO	TALS		-	NB 0		SB 0		EB 2,351	WB 2,423							otal 774
AAA Dawia d	ND C	`n	ED.					TAL		ŕ		ED.		WD			
AM Period 00:00	NB S	В	EB		WB 2		8	TAL	PM Period 12:00	NB	SB	EB 39		WB 28		67	TAL
00:15			1		4		5		12:15	0		29		25		54	
00:30			2	4.0	0	-	2		12:30			28	40=	42	400	70	250
00:45 01:00			2	13	3	6	<u>4</u> 5	19	12:45 13:00			39 34	135	38 32	133	77 66	268
01:15			3		1		4		13:15			26		29		55	
01:30			0		2		2		13:30			31		30		61	
01:45			1	6	1	7	2	13	13:45			33	124	29	120	62	244
02:00 02:15			2 1		0 3		2 4		14:00 14:15			39 50		26 26		65 76	
02:30			0		2		2		14:30			37		84		121	
02:45			1	4	0	5	1	9	14:45			40	166	31	167	71	333
03:00			0		2		2		15:00			37		35		72	
03:15			2		2 0		4		15:15 15:30			40		37		77 80	
03:30 03:45			0	4	4	8	2 4	12	15:45			41 79	197	39 68	179	147	376
04:00			0	-	1	- U	1		16:00			49	137	39	173	88	370
04:15			2		1		3		16:15			50		46		96	
04:30			2		6		8	20	16:30			53	400	50	470	103	276
04:45 05:00			4	6	<u>6</u> 7	14	8 11	20	16:45 17:00			46 57	198	43 49	178	89 106	376
05:15			3		10		13		17:15			51		44		95	
05:30			3		10		13		17:30			63		48		111	
05:45			6	16	14	41	20	57	17:45			47	218	49	190	96	408
06:00 06:15			9 11		14 15		23 26		18:00 18:15			50 49		37 40		87 89	
06:30			12		21		33		18:30			49		33		77	
06:45			16	48	40	90	56	138	18:45			35	178	35	145	70	323
07:00			26		39		65		19:00			34		30		64	
07:15 07:30			33 46		60 59		93 105		19:15 19:30			36 2 9		31 30		67 59	
07:30 07:45			46 74	179	62	220	136	399	19:45			34	133	23	114	59 57	247
08:00			30	175	84	220	114	333	20:00			33	133	26	111	59	
08:15			26		56		82		20:15			31		23		54	
08:30			30	107	45	216	75	222	20:30			25	110	17	00	42	200
08:45 09:00			21 25	107	31 32	216	52 57	323	20:45 21:00			29 22	118	22 9	88	51 31	206
09:15			20		31		51		21:15			27		17		44	
09:30			16		35		51		21:30			26		18		44	
09:45			24	85	42	140	66	225	21:45			22	97	11	55	33	152
10:00 10:15			24 25		34 31		58 56		22:00 22:15			16 22		16 8		32 30	
10:30			23		28		51		22:30			14		11		25	
10:45			19	91	32	125	51	216	22:45			13	65	10	45	23	110
11:00			29		35		64		23:00			16		4		20	
11:15 11:30			27 25		33 27		60 52		23:15 23:30			16 16		10 4		26 20	
11:30 11:45			23	104	21	116	52 44	220	23:30 23:45			16	59	3	21	20 14	80
TOTALS				663		988		1651	TOTALS				1688	<u> </u>	1435		3123
SPLIT %				40.2%		59.8%		34.6%	SPLIT %				54.1%		45.9%		65.4%
					ALD-		CD			WA							t a l
	DAILY TO	TALS			NB		SB		EB	WB							otal
					0		0		2,351	2,423						4,7	774
AM Peak Hour				07:15		07:15		07:15	PM Peak Hour				15:45		15:45		15:45
AM Pk Volume				183		265		448	PM Pk Volume				231		203		434
Pk Hr Factor				0.618		0.789		0.824	Pk Hr Factor				0.731		0.746		0.738
7 - 9 Volume	0	0		286		436		722	4 - 6 Volume	0	0		416		368		784
7 - 9 Peak Hour				07:15		07:15		07:15	4 - 6 Peak Hour				17:00		17:00		17:00
7 - 9 Pk Volume				183		265		448	4 - 6 Pk Volume				218		190		408
Pk Hr Factor	0.000	0.000		0.618		0.789		0.824	Pk Hr Factor	0.000	0.00	00	0.865		0.969		0.919

VOLUME

28 - Carmel Ave Bet. California Ave & Salinas Ave (36.674994, -121.783227)

	DAILY TOTALS		_	NB		SB		EB		WB						То	tal
	DAILT TOTALS	<u>'</u>		0		0		452		418						87	70
AM Period	NB SB	EB		WB			TAL	PM Period	NB		SB	ЕВ		WB		TO	TAL
00:00 00:15		0 0		0 0		0		12:00 12:15				8 4		6 7		14 11	
00:30		0		0		0		12:30				4		9		13	
00:45 01:00		0		0	1	0	1	12:45 13:00				16 4	32	<u>5</u>	27	21 7	59
01:15		0		0		0		13:15				4		4		8	
01:30		0	1	0		0	1	13:30				3	17	5	16	8	22
01:45 02:00		<u>1</u> 0	11	0		0	1	13:45 14:00				<u>6</u> 5	17	4 12	16	10 17	33
02:15		0		0		0		14:15				15		12		27	
02:30 02:45		0 0		0 0		0		14:30 14:45				35 6	61	11 4	39	46 10	100
03:00		0		0		0		15:00				5		2	- 55	7	100
03:15 03:30		0 0		0 0		0		15:15 15:30				6 8		9 5		15 13	
03:45		1	1	0		1	1	15:45				17	36	12	28	29	64
04:00		0		1		1		16:00				7		8		15	
04:15 04:30		0 0		0 0		0		16:15 16:30				8 6		9 6		17 12	
04:45		0		0	1	0	1	16:45				6	27	11	34	17	61
05:00 05:15		0 0		0 1		0 1		17:00 17:15				15 18		11 10		26 28	
05:30		1		0		1		17:30				9		7		16	
05:45		0 1	1	1 1	2	2	3	17:45 18:00				13 14	55	<u>8</u> 7	36	21 21	91
06:00 06:15		0		4		4		18:15				14 5		7		12	
06:30		0	2	1	•	1	4.4	18:30				3	20	6	25	9	5 2
06:45 07:00		3	2	3	9	<u>4</u> 6	11	18:45 19:00				<u>6</u> 7	28	<u>5</u> 3	25	11 10	53
07:15		8		14		22		19:15				5		9		14	
07:30 07:45		21 33	65	11 27	55	32 60	120	19:30 19:45				9	24	5 13	30	14 16	54
08:00		22		8	- 55	30	120	20:00				3		5	- 50	8	
08:15 08:30		3 7		7 4		10 11		20:15 20:30				1 6		4 3		5 9	
08:45		2	34	0	19	2	53	20:45				4	14	2	14	6	28
09:00		1		5		6		21:00 21:15				4		5		9	
09:15 09:30		1 2		2 8		3 10		21:15				2 2		4 2		6 4	
09:45		7	11	5	20	12	31	21:45				4	12	4	15	8	27
10:00 10:15		4 2		3 6		7 8		22:00 22:15				4 0		2		6 3	
10:30		1		5		6		22:30				0		0		0	
10:45 11:00		<u>2</u> 4	9	6	16	<u>4</u> 10	25	22:45 23:00				0	6	1	6	3	12
11:15		3		5		8		23:15				4		1		5	
11:30 11:45		2 1	10	2 9	22	4 10	32	23:30 23:45				1 1	6	1 0	3	2 1	9
TOTALS		1	134	9	145	10	2 79	TOTALS				<u> </u>	318	U	273		591
SPLIT %			48.0%		52.0%		32.1%	SPLIT %					53.8%		46.2%		67.9%
J. 211 70			.0.070	NA	32.070	CD	22,270			14/2			55.070		10.270		
	DAILY TOTALS		-	NB 0		SB 0		EB 452		WB 418							otal 70
										720							
AM Peak Hour AM Pk Volume			07:15 84		07:15 60		07:15 144	PM Peak Hour PM Pk Volume					13:45 61		13:45 39		13:45 100
Pk Hr Factor			0.636		0.556		0.600	Pk Hr Factor					0.436		0.813		0.543
7 - 9 Volume	0	0	99		74		173	4 - 6 Volume		0		0	82		70		152
7 - 9 Peak Hour 7 - 9 Pk Volume			07:15 84		07:15 60		07:15 144	4 - 6 Peak Hour 4 - 6 Pk Volume					17:00 55		16:45 30		17:00 91
Pk Hr Factor			0.636		60 0.556		144 0.600	Pk Hr Factor					55 0.764		39 0.886		0.813
	0.000		0.000		0.550		0.300						0.707		0.000		5.510

VOLUME

29 - Salinas Ave Bet. Carmel Ave & Reservation Rd (36.675705, -121.779582)

	DA	III V T	OTALS			NB		SB	EB		WB					То	tal
	UF	AILY I	UTALS	,		160	:	143	0		0					30	03
AM Period	NB		SB		ЕВ	WB		TOTAL	PM Period	NB		SB	Е	В	WB	TO	TAL
00:00	1		0					1	12:00	2		2				4	
00:15 00:30	0		0 0					0	12:15 12:30	0 1		2 1				2 2	
00:45	0	1	0					0 1	12:45	2	5	3	8			5	13
01:00	0		0					0	13:00	2		2				4	
01:15	0		0					0	13:15 13:30	2 4		1				3	
01:30 01:45	0		0 0					0	13:45	2	10	3 2	8			7 4	18
02:00	0		0					0	14:00	5		1				6	
02:15	0		0					0	14:15	3		2				5	
02:30 02:45	0 1	1	0 0					0 1 1	14:30 14:45	6 1	15	1 2	6			7 3	21
03:00	0		0					0	15:00	1		1				2	
03:15	0		0					0	15:15	3		3				6	
03:30 03:45	0 1	1	0 0					0 1 1	15:30 15:45	4 5	13	4 2	10			8 7	23
04:00	2		1					3	16:00	8	13	3	10			11	23
04:15	0		0					0	16:15	3		1				4	
04:30 04:45	0	2	0 0	1				0 3	16:30 16:45	2 3	16	2 1	7			4 4	23
05:00	0		0	1				0 5	17:00	9	10	4	/			13	25
05:15	0		0					0	17:15	4		5				9	
05:30	0		0					0	17:30	3	21	4	10			7	40
05:45 06:00	0		0					0	17:45 18:00	<u>5</u>	21	<u>6</u> 3	19			<u>11</u> 9	40
06:15	0		1					1	18:15	0		0				0	
06:30	0		1					1	18:30	1	_	2	•			3	
06:45 07:00	0 1		4	4				2 4 5	18:45 19:00	0	7	3 2	8			2	15
07:15	5		7					12	19:15	5		5				10	
07:30	4		5					9	19:30	1		5				6	
07:45 08:00	10 4	20	0	20				4 40	19:45 20:00	0	8	0	14			0	22
08:15	1		3					4	20:15	1		1				2	
08:30	5		3					8	20:30	2		1				3	
08:45	0	10		6				0 16	20:45	0	3	3	5			3	8
09:00 09:15	1 4		2 2					3 6	21:00 21:15	0 2		1 2				1 4	
09:30	1		1					2	21:30	1		0				1	
09:45	1	7		6				2 13	21:45	1	4	2	5			3	9
10:00 10:15	0		3 1					3	22:00 22:15	3 0		0 0				3 0	
10:30	1		2					3	22:30	0		1				1	
10:45	2	3		9				5 12	22:45	1	4	0	1			1	5
11:00 11:15	2		3 2					5 5	23:00 23:15	0 1		0 1				0 2	
11:15	0		0					0	23:15	1		0				1	
11:45	1	6		5				1 11	23:45	1	3	0	1			1	4
TOTALS		51	!	51				102	TOTALS		109		92				201
SPLIT %		50.0%	50	0.0%				33.7%	SPLIT %		54.2%	4	5.8%				66.3%
		UIV T	OTAL	,		NB		SB	ЕВ		WB					To	tal
	- DA	TILY I	OTALS	•		160		143	0		0						03
AM Peak Hour		07:15	0	7:00				07:00	PM Peak Hour		17:00	1	7:00				17:00
AM Pk Volume		23		20				40	PM Pk Volume		21		19				40
Pk Hr Factor		0.575		.714				0.714	Pk Hr Factor		0.583).792				0.769
7 - 9 Volume		30		26				56	4 - 6 Volume		37		26				63
7 - 9 Peak Hour 7 - 9 Pk Volume		07:15 23		7:00 20				07:00 40	4 - 6 Peak Hour 4 - 6 Pk Volume		17:00 21		.7:00 19				17:00 40
Pk Hr Factor		0.575		.714				0.714	Pk Hr Factor		0.583		19				0.769

VOLUME

30 - Paul Davis Dr Bet. Healy Ave & Marina Greens Dr (36.699491, -121.794309)

	DAT	IVE	OTALS			NB	SB		EB		WB						To	tal
	DAII	LYIV	UTALS	•		317	395		0		0						7	12
AM Period	NB		SB		EB	WB	T <u>O</u>	TAL	PM Period	NB		SB		EB	W	B	TO	TAL
00:00	0		0				0		12:00	3		4					7	
00:15 00:30	0 0		0 0				0		12:15 12:30	3 7		6 8					9 15	
00:30	_	1	0				1	1	12:45	3	16	3	21				6	37
01:00	1		0				1		13:00	7	10	8					15	
01:15	1		1				2		13:15	7		11					18	
01:30	0 0	2	0	1			0	2	13:30	6	22	8	25				14 11	го
01:45 02:00	0	2	1	1			1	3	13:45 14:00	<u>3</u>	23	<u>8</u> 6	35				10	58
02:15	0		0				0		14:15	2		2					4	
02:30	1		1				2		14:30	5		6					11	
02:45		2		4			3	6	14:45	5	16	5	19				10	35
03:00 03:15	2 0		0 0				2		15:00 15:15	2 4		5 7					7 11	
03:30	0		0				0		15:30	10		4					14	
03:45	2	4	0				2	4	15:45	9	25	5	21				14	46
04:00	0		1				1		16:00	9		7					16	
04:15 04:30	1 2		0 1				1 3		16:15 16:30	7 8		11 7					18 15	
04:30		3		2			0	5	16:45	9	33	9	34				18	67
05:00	1	<u> </u>	1				2		17:00	9		9	31				18	
05:15	3		3				6		17:15	4		5					9	
05:30	1	•	1	_			2	45	17:30	4	20	7	20				11	
05:45 06:00	3 5	8	4	7			5 9	15	17:45 18:00	11 1	28	<u>8</u> 4	29				19 5	57
06:15	3		9				12		18:15	6		4					10	
06:30	3		12				15		18:30	3		12					15	
06:45		19		19			32	68	18:45	2	12	12	32				14	44
07:00 07:15	6 2		5 5				11 7		19:00 19:15	5 4		6 4					11 8	
07:30	8		5				13		19:30	2		5					7	
07:45		22		20			11	42	19:45	3	14	3	18				6	32
08:00	2		5				7		20:00	1		3					4	
08:15	2		5				7		20:15	1		2					3	
08:30 08:45	6 4	14	6 5 2	21			12 9	35	20:30 20:45	3 6	11	0 6	11				3 12	22
09:00	2		3				5		21:00	4		2					6	
09:15	3		4				7		21:15	2		1					3	
09:30	2	4.2	5				7	20	21:30	1		3	-				4	4.5
09:45 10:00	6 : 5	13	8	16			10	29	21:45 22:00	3	8	<u>1</u> 0	7				3	15
10:15	5		4				9		22:15	0		1					1	
10:30	4		3				7		22:30	0		1					1	
10:45		15		18			4	33	22:45	0	3	1	3				1	6
11:00 11:15	6 6		7 4				13 10		23:00 23:15	1 0		0 1					1 1	
11:30	5		5				10		23:30	1		0					1	
11:45		23		26			16	49	23:45	0	2	Ö	1				0	3
TOTALS	1	L26	1	.64				290	TOTALS		191		231					422
SPLIT %	43	3.4%	56	5.6%				40.7%	SPLIT %		45.3%		54.7%					59.3%
			0744			NB	SB		EB		WB						To	tal
	DAI	LY T	OTALS			317	395		0		0							12
AM Peak Hour		6:45	0.	6:15				06:15	PM Peak Hour		15:30		16:15					16:15
AM Pk Volume		24		50 50				70	PM Pk Volume		35		36					69
Pk Hr Factor).750		.521				0.547	Pk Hr Factor		0.875		0.818					0.958
7 - 9 Volume		36		41	0	0		77	4 - 6 Volume		61		63	()	0		124
7 - 9 Peak Hour	0	7:00	0	7:45				07:00	4 - 6 Peak Hour		16:00		16:15					16:15
7 - 9 Pk Volume		22		21				42	4 - 6 Pk Volume		33		36					69
Pk Hr Factor	0	.688	0.	.875	0.000	0.0	00	0.808	Pk Hr Factor		0.917		0.818	0.0	000	0.000		0.958

VOLUME

31 - Patton Pkwy Bet. Marina High School & California Ave (36.673387, -121.795202)

	DAILY TO	TAIC		_	NB		SB		EB		WB						To	otal
	DAILTIC	JIALS			0		0		279		379						6	58
AM Period	NB	SB	EB		WB		то	TAL	PM Period	NB		SB	EB		WB		TO	TAL
00:00			0		0		0		12:00				2		1		3	
00:15			0		0		0		12:15				2		1		3	
00:30			0		0		0		12:30				3	42	2	_	5	47
00:45			0		0		0		12:45 13:00				5	12	1	5	6 9	17
01:00 01:15			0		0 1		1		13:15				5 3		4 2		5	
01:30			0		0		0		13:30				6		1		7	
01:45			0		0	1	0	1	13:45				5	19	1	8	6	27
02:00			0		1		1		14:00				1		2		3	
02:15			0		0		0		14:15				1		2		3	
02:30			0		1	_	1	2	14:30				6	0	6	24	12	20
02:45			0		0	2	0	2	14:45 15:00				<u>1</u> 36	9	11 14	21	12 50	30
03:00 03:15			0		0		0		15:15				30 7		14 5		12	
03:30			0		0		0		15:30				3		1		4	
03:45			Ö		2	2	2	2	15:45				3	49	7	27	10	76
04:00			0		1		1		16:00				11		7		18	
04:15			0		0		0		16:15				1		4		5	
04:30			0		0		0		16:30				5		1		6	0.5
04:45			1	1	1	2	2	3	16:45				1	18	3	15	4	33
05:00 05:15			0 0		0 2		0 2		17:00 17:15				6 3		5 3		11 6	
05:30			0		4		4		17:30				2		2		4	
05:45			0		14	20	14	20	17:45				0	11	3	13	3	24
06:00			1		0		1		18:00				3		2		5	
06:15			1		0		1		18:15				7		6		13	
06:30			2		5		7		18:30				1		5		6	
06:45			1	5	5	10	6	15	18:45				1	12	6	19	7	31
07:00 07:15			2 11		4 16		6 27		19:00 19:15				0 5		18 17		18 22	
07:15 07:30			16		16 56		72		19:30				2		12		14	
07:45				74	19	95	64	169	19:45				3	10	6	53	9	63
08:00			4		4		8		20:00				0		4		4	
08:15			3		6		9		20:15				1		3		4	
08:30			2		1		3		20:30				5		6		11	
08:45				12	0	11	3	23	20:45				0	6	7	20	7	26
09:00 09:15			2 2		1		3		21:00 21:15				1		3 5		4 6	
09:30			2		2 3		4 5		21:30				1 0		1		1	
09:45			3	9	4	10	7	19	21:45				1	3	3	12	4	15
10:00			4		3		7		22:00				2		2		4	
10:15			3		3		6		22:15				0		4		4	
10:30			4		2		6		22:30				0		0	_	0	
10:45				15	1	12	8	27	22:45 23:00				2	4	2	8	0	12
11:00 11:15			2 5		4		3 9		23:00 23:15				0 1		0 1		2	
11:30			1		4		5		23:30				0		0		0	
11:45			1	9	3	12	4	21	23:45				Ö	1	0	1	0	2
TOTALS				125		177		302	TOTALS					154		202		356
SPLIT %			4	1.4%		58.6%		45.9%	SPLIT %					43.3%		56.7%		54.1%
	DAILY TO	TAIS			NB		SB		EB		WB							otal
					0		0		279		379						6	58
AM Peak Hour			C	07:15		07:00		07:15	PM Peak Hour					14:30		18:45		14:30
AM Pk Volume				76		95		171	PM Pk Volume					50		53		86
Pk Hr Factor				0.422		0.424		0.594	Pk Hr Factor					0.347		0.736		0.430
7 - 9 Volume	0	0		86		106		192	4 - 6 Volume		0	0		29		28		57
7 - 9 Peak Hour			C	7:15		07:00		07:15	4 - 6 Peak Hour					16:00		16:00		16:00
7 - 9 Pk Volume				76		95		171	4 - 6 Pk Volume					18		15		33
Pk Hr Factor	0.000	0.000	C).422		0.424		0.594	Pk Hr Factor		0.000	0.00	0	0.409		0.536		0.458
	-																	

VOLUME

32 - Crescent St Bet. Patton Pkwy & Reindollar Ave (36.675808, -121.798162)

	D	AILY T	ΌΤΔ	ıs		NB		SB		EB		WB								tal
		AIL! !				648		518		0		0							1,1	L66
AM Period	NB		SB		EB	WB		ТО	TAL	PM Period	NB		SB		ЕВ	V	/B		TO	TAL
00:00 00:15	0		0					0		12:00 12:15	5 7		6 6						11 13	
00:30	0		0					0		12:30	3		7						10	
00:45 01:00	0	1	0					0	1	12:45 13:00	7 15	22	7 11	26					14 26	48
01:00	1		0					1		13:15	10		6						16	
01:30	0	4	0					0	4	13:30	4	25	6	27					10	62
01:45 02:00	0	1	0					0	1	13:45 14:00	<u>6</u>	35	3	27					10 9	62
02:15	0		0					0		14:15	6		4						10	
02:30 02:45	2	2	0 0					2	2	14:30 14:45	4 7	23	14 24	45					18 31	68
03:00	0		0					0		15:00	63		25						88	
03:15 03:30	0		0 0					0		15:15 15:30	13 14		9 9						22 23	
03:45	2	2	0					2	2	15:45	7	97	5	48					12	145
04:00 04:15	1 0		0 1					1 1		16:00 16:15	13 10		14 9						27 19	
04:30	0		1					1		16:30	5		6						11	
04:45	1	2	0	2				1	4	16:45	6	34	6	35					12 22	69
05:00 05:15	0		0					0		17:00 17:15	12 8		10 4						12	
05:30	3		0					3	4.0	17:30	5	••	4	••					9	
05:45 06:00	12 1	17	<u>1</u> 1	1				13 2	18	17:45 18:00	<u>4</u> 6	29	<u>5</u> 9	23					9 15	52
06:15	0		0					0		18:15	11		18						29	
06:30 06:45	4 5	10	3 3	7				7 8	17	18:30 18:45	13 2	32	4 6	37					17 8	69
07:00	3	10	6					9	17	19:00	18	32	3	37					21	03
07:15 07:30	18 69		47 64					65 133		19:15 19:30	18 13		3						21 18	
07:30	55	145	30	147				85	292	19:45	8	57	5 4	15					12	72
08:00	5		13					18		20:00	7		2						9	
08:15 08:30	4 3		6 7					10 10		20:15 20:30	4 20		2 4						6 24	
08:45	3	15	6	32				9	47	20:45	13	44	2	10					15	54
09:00 09:15	3 2		7 1					10 3		21:00 21:15	7 6		0 2						7 8	
09:30	3		6					9		21:30	2		0						2	
09:45 10:00	<u>3</u>	11	<u>6</u> 2	20				9	31	21:45 22:00	2	19	<u>3</u>	5					7	24
10:15	6		6					12		22:15	4		0						4	
10:30	5	10	2	15				7	22	22:30 22:45	0	0	0	_					0	12
10:45 11:00	3	18	5 4	15				8 7	33	23:00	<u>2</u>	8	0	5					6 1	13
11:15	5		3					8		23:15	1		1						2	
11:30 11:45	5 8	21	4 6	17				9 14	38	23:30 23:45	1 0	3	0 0	1					1 0	4
TOTALS		245		241					486	TOTALS		403		277						680
SPLIT %		50.4%		49.6%					41.7%	SPLIT %		59.3%		40.7%						58.3%
						NID.		CD.											-	
	D.	AILY T	OTA	LS		NB 648		SB 518		EB 0		WB 0								tal 166
						048		219				<u> </u>							1,1	.00
AM Peak Hour		07:15		07:15					07:15	PM Peak Hour		14:45		14:30						14:45
AM Pk Volume Pk Hr Factor		147 0.533		154 0.602					301 0.566	PM Pk Volume Pk Hr Factor		97 0.385		72 0.720						164 0.466
7 - 9 Volume		160		179	0		0		339	4 - 6 Volume		63		58		0		0		121
7 - 9 Peak Hour		07:15		07:15					07:15	4 - 6 Peak Hour		16:00		16:00						16:00
7 - 9 Pk Volume		147		154					301	4 - 6 Pk Volume		34		35						69
Pk Hr Factor		0.533		0.602	0.000		0.000		0.566	Pk Hr Factor		0.654		0.625	0	.000	0.	UUU		0.639

VOLUME

33 - Vaughan Ave Bet. Reindollar Ave & Carmel Ave (36.678773, -121.793837)

	D	AILY T	TOT/	VI C		NB		SB		EB		WB						To	otal
	U	AILY I	1011	4L3		546		487		0		0						1,	033
AM Period	NB		SB		EB	WB		то	TAL	PM Period	NB		SB		EB	V	/B	TC	TAL
00:00	0		0					0		12:00	2		2					4	
00:15	0		0					0		12:15 12:30	2		6					8	
00:30 00:45	2	2	1 0	1				3	3	12:45	5 7	16	3 5	16				8 12	32
01:00	0		0					0	3	13:00	3	10	3	10				6	32
01:15	1		0					1		13:15	5		8					13	
01:30 01:45	1	2	0 0					1	2	13:30 13:45	2 6	16	2 7	20				4 13	36
02:00	0		0					0		14:00	13	16	7	20				20	30
02:15	0		Ö					0		14:15	20		5					25	
02:30	0		1	_				1		14:30	11		18					29	
02:45 03:00	0		0	1				0	1	14:45 15:00	9 14	53	16 8	46				25 22	99
03:00	0		0					0		15:15	5		11					16	
03:30	0		0					0		15:30	10		6					16	
03:45	0		0					0		15:45	21	50	7	32				28	82
04:00 04:15	0 1		1 1					1 2		16:00 16:15	9 5		10 13					19 18	
04:30	0		0					0		16:30	6		8					14	
04:45	0	1	1	3				1	4	16:45	16	36	11	42				27	78
05:00	0		2					2		17:00	8		9					17	
05:15 05:30	2 1		0 0					2 1		17:15 17:30	10 14		8 9					18 23	
05:45	1	4	1	3				2	7	17:45	11	43	13	39				24	82
06:00	4		0					4		18:00	12		10					22	
06:15	1		3					4		18:15 18:30	10		11					21	
06:30 06:45	2 1	8	2 8	13				4 9	21	18:45	9 3	34	6 6	33				15 9	67
07:00	7		12	13				19		19:00	8	31	6	- 55				14	07
07:15	9		15					24		19:15	6		3					9	
07:30 07:45	29 54	99	28 18	72				57 72	172	19:30 19:45	7 7	28	4 7	20				11 14	48
08:00	8	99	21	73				29	1/2	20:00	7	28	2	20				9	48
08:15	9		4					13		20:15	6		5					11	
08:30	9		7					16		20:30	4	2.5	3					7	
08:45 09:00	11 4	37	10 4	42				21 8	79	20:45 21:00	9	26	<u>4</u> 1	14				13 2	40
09:15	3		3					6		21:15	1		5					6	
09:30	5		8					13		21:30	2		1					3	
09:45	10	22	6	21				16	43	21:45	3	7	2	9				5	16
10:00 10:15	4 7		2 6					6 13		22:00 22:15	2 1		2					4	
10:30	6		8					14		22:30	1		0					1	
10:45	10	27	9	25				19	52	22:45	3	7	0	5				3	12
11:00 11:15	7 6		8 5					15 11		23:00 23:15	1 0		2 0					3 0	
11:15	5		6					11		23:30	0		2					2	
11:45	7	25	6	25				13	50	23:45	2	3	0	4				2	7
TOTALS		227		207					434	TOTALS		319		280					599
SPLIT %		52.3%		47.7%					42.0%	SPLIT %		53.3%		46.7%					58.0%
						NB		SB		ЕВ		WB						T	otal
	D	AILY T	TOT A	ALS _		546				0		0						_	033
						546		487		U		U						1,	0 55
AM Peak Hour		07:15		07:15					07:15	PM Peak Hour		14:15		14:30					14:15
AM Pk Volume		100		82					182	PM Pk Volume		54		53					101
Pk Hr Factor		0.463		0.732					0.632	Pk Hr Factor		0.675		0.736					0.871
7 - 9 Volume		136		115					251	4 - 6 Volume		79		81					160
7 - 9 Peak Hour 7 - 9 Pk Volume		07:15		07:15					07:15 182	4 - 6 Peak Hour 4 - 6 Pk Volume		16:45		16:00					16:45 85
Pk Hr Factor		100 0.463		82 0.732					0.632	Pk Hr Factor		48 0.750		42 0.808					85 0.787
FR HI FACLUF		0.403		0.732	0.00		0.000		0.032	r K III ractoi		0.730		0.000		.000	0.000		0.707

VOLUME

34 - Seacrest Ave Bet. Carmel Ave & Reservation Rd (36.684349, -121.797210)

	ח	AILY 1	ΓΩΤΛ	AI S		NB		SB		EB		WB							Гotа	I
	יט	AILT	UIF	(L)		2,282	2,	,384		0		0						4	1,66	6
AM Period	NB		SB		EB	WB		TOT	AL	PM Period	NB		SB		ЕВ	,	WB		OTA	\L
00:00 00:15	4 0		2					6 3		12:00 12:15	33 41		34 33					67 74		
00:30	2		2					4		12:30	31		47					78		
00:45	1	7	2	9				3	16	12:45	42	147	43	157				85	3	304
01:00 01:15	0 1		1 2					1		13:00 13:15	41 30		31 37					72 67		
01:30	0		1					1		13:30	37		37					74		
01:45	1	2	1	5				2	7	13:45	31	139	50	155				81	2	294
02:00 02:15	0 1		0 1					0		14:00 14:15	37 38		32 40					69 78		
02:30	2		0					2		14:30	41		33					74		
02:45	2	7	<u>2</u>	3				3	10	14:45 15:00	32 35	148	48 41	153				80 76	= 3	301
03:00 03:15	1		0					1		15:15	35 48		38					86		
03:30	1		2					3		15:30	47		47					94		
03:45 04:00	0	5	2	4				2	9	15:45 16:00	52 63	182	44	170				96 111		352
04:15	0		1					1		16:15	48		50					98		
04:30	0		1					1		16:30	44		47					91		
04:45 05:00	5 6	5	5 1	9				10 7	14	16:45 17:00	46 62	201	59 53	204				105		105
05:15	3		2					5		17:15	53		65					118		
05:30	3		4					7		17:30	57		58					115		
05:45 06:00	5 7	17	<u>8</u> 9	15				13 16	32	17:45 18:00	61 40	233	63 56	239				12 ⁴ 96		172
06:15	14		12					26		18:15	37		51					88		
06:30	20		19					39		18:30	38		27					65		
06:45 07:00	16 18	57	20 33	60				36 51	117	18:45 19:00	24 39	139	23 36	157				47 75		296
07:15	20		23					43		19:15	36		43					79		
07:30	38	400	29	420				67	220	19:30	33	420	44	4.40				77		.70
07:45 08:00	32 41	108	35 32	120				67 73	228	19:45 20:00	21 24	129	26 25	149				47 49		278
08:15	22		36					58		20:15	26		32					58		
08:30	22 34	110	31 26	125				53 60	244	20:30 20:45	22 26	98	28 22	107				50 48		205
08:45 09:00	34	119	32	125				66	244	21:00	13	98	17	107				30		.05
09:15	27		31					58		21:15	22		19					41		
09:30 09:45	23 28	112	34 20	117				57 48	229	21:30 21:45	14 3	52	20 11	67				34 14	1	119
10:00	38	112	33	11/				40 71	229	22:00	9	32	19	07				28		.19
10:15	31		21					52		22:15	7		9					16		
10:30 10:45	32 41	142	30 28	112				62 69	254	22:30 22:45	21 7	44	13 20	61				34 27	1	105
11:00	34	147	44	114				78	234	23:00	9	74	13	UI				22		.00
11:15	42		42					84		23:15	9		7					16		
11:30 11:45	39 50	165	32 36	154				71 86	319	23:30 23:45	2 4	24	6 6	32				8 10		56
TOTALS		746		733					1479	TOTALS		1536		1651						187
SPLIT %		50.4%		49.6%				;	31.7%	SPLIT %		48.2%		51.8%						8.3%
						NB		SB		EB		WB							Гota	
	D	AILY 1	OTA	NLS		2,282		,384		0		0							1,66	
AM Peak Hour		11:00		11:00					11:00	PM Peak Hour		17:00		17:15						7:00
AM Pk Volume		165		154					319	PM Pk Volume		233		242						472
Pk Hr Factor		0.825		0.875					0.927	Pk Hr Factor		0.940		0.931						.952
7 - 9 Volume		227		245	0		0		472	4 - 6 Volume		434		443		0		0		877
7 - 9 Peak Hour 7 - 9 Pk Volume		07:30 133		07:45 134					07:30 265	4 - 6 Peak Hour 4 - 6 Pk Volume		17:00 233		17:00 239						.7:00 472
Pk Hr Factor		0.811		0.931					0.908	Pk Hr Factor		0.940		0.919						.952
				2.301								2.3.0								

VOLUME

35 - Sunset Ave Bet. Reindollar Ave & Carmel Ave (36.680757, -121.802073)

DAILY TOTALS						NB	SB			EB WB									Total		
		AIL!	.01,	123		1,771		2,003		0		0							3,7	74	
AM Period	NB		SB		EB	WB		ТО	TAL	PM Period	NB		SB		ЕВ	V	VΒ		TO	TAL	
00:00 00:15	0		0 1					0		12:00 12:15	21 29		25 15						46 44		
00:30	3		1					4		12:30	16		34						50		
00:45 01:00	3 1	6	0	4				5 1	10	12:45 13:00	25 27	91	30 26	104					55 53	195	
01:15	2		3					5		13:15	24		19						43		
01:30 01:45	0	3	1 1	5				1 1	8	13:30 13:45	22 19	92	37 22	104					59 41	196	
02:00	0		0	<u> </u>				0	0	14:00	28	32	29	104					57	190	
02:15 02:30	2		1 0					3		14:15	29 34		20 42						49 76		
02:30	1 1	4	4	5				1 5	9	14:30 14:45	20	111	42 46	137					76 66	248	
03:00	0		0					0		15:00	34		39						73		
03:15 03:30	3 0		3 0					6 0		15:15 15:30	42 42		46 51						88 93		
03:45	2	5	2	5				4	10	15:45	70	188	51	187					121	375	
04:00 04:15	0		0 2					0 2		16:00 16:15	50 36		35 35						85 71		
04:30	0		2					2		16:30	43		38						81		
04:45 05:00	2	4	<u>6</u> 2	10				10 4	14	16:45 17:00	43 50	172	36 38	144					79 88	316	
05:15	6		1					7		17:15	40		32						72		
05:30 05:45	4 6	18	5 3	11				9	29	17:30 17:45	35 29	154	35 30	135					70 59	289	
06:00	9	10	9					18	23	18:00	32	134	34	133					66	203	
06:15	11		12					23 22		18:15 18:30	30		25 29						55		
06:30 06:45	5 18	43	17 24	62				42	105	18:45	25 28	115	35	123					54 63	238	
07:00	24		40					64		19:00	33		32						65		
07:15 07:30	27 41		49 59					76 100		19:15 19:30	22 18		22 22						44 40		
07:45	39	131	46	194				85	325	19:45	21	94	26	102					47	196	
08:00 08:15	36 43		77 60					113 103		20:00 20:15	22 17		33 19						55 36		
08:30	20		23					43		20:30	22		20						42		
08:45 09:00	22 25	121	31 32	191				53 57	312	20:45 21:00	15 16	76	23 15	95					38 31	171	
09:15	9		17					26		21:15	13		18						31		
09:30 09:45	14 22	70	23 13	OE.				37	155	21:30 21:45	8 5	42	12 12	57					20 17	99	
10:00	15	70	26	85				35 41	155	22:00	11	42	10	57					21	99	
10:15	24		15					39		22:15	5		13						18		
10:30 10:45	22 32	93	28 21	90				50 53	183	22:30 22:45	4 4	24	6 3	32					10 7	56	
11:00	21	-	22					43		23:00	6		9						15		
11:15 11:30	25 32		22 26					47 58		23:15 23:30	3 4		5 11						8 15		
11:45	20	98	22	92				42	190	23:45	3	16	4	29					7	45	
TOTALS		596		754					1350	TOTALS		1175		1249						2424	
SPLIT %		44.1%		55.9%					35.8%	SPLIT %		48.5%		51.5%						64.2%	
		A 1134				NB		SB		EB		WB							To	tal	
	D	AILY 1	TOTA	ALS		1,771		2,003		0		0							3,7		
AM Peak Hour		07:30		07:30					07:30	PM Peak Hour		15:15		15:00						15:15	
AM Pk Volume		159		242					401	PM Pk Volume		204		187						387	
Pk Hr Factor		0.924		0.786					0.887	Pk Hr Factor		0.729		0.917						0.800	
7 - 9 Volume 7 - 9 Peak Hour		252 07:30		385 07:30					637 07:30	4 - 6 Volume 4 - 6 Peak Hour		326 16:30		279 16:15						605 16:30	
7 - 9 Pk Volume		159		242					401	4 - 6 Pk Volume		176		147						320	
Pk Hr Factor		0.924		0.786	0.0	00	0.000		0.887	Pk Hr Factor		0.880		0.967	C	0.000	(0.000		0.909	

VOLUME

36 - Lake Dr Bet. Palm Ave & Reservation Rd (36.685914, -121.805594)

AM Pk Volume 49 78 125 PM Pk Volume 57 78 134 Pk Hr Factor 0.817 0.780 0.781 Pk Hr Factor 0.792 0.750 0.750 0.905 7 - 9 Volume 79 136 0 215 4 - 6 Volume 103 137 0 240		D	A II V T	OTA	ALC.		NB	SB		EB		WB						To	tal
00000		D,	AILT	UIF	(L)		648	826		0		0						1,4	74
0015 0 1 0 1 1 1 1215 6 13 19 19 1006 1007 0 1 1 1 1215 10 18 18 18 19 1006 10 10 10 11 1 1305 10 10 13 10 10 10 10 10	AM Period	NB		SB		EB	WB	TO	TAL	PM Period	NB		SB		ЕВ	WE	3	TO	TAL
00:30																			
00.150 0 2 1 6 1 8 12.45 8 36 13 38 21 74																			
01:10			2		6				8			36		38					74
01:30 0 0 0 1 1 3 13:30 11 7 7 18 02:00 12 13 3 13:45 9 41 12 39 12 180 02:00 2 1 1 3 13:45 9 41 12 39 12 180 02:00 12 1 1 3 13:45 9 41 12 39 1 12 180 12 18												30		30					
0.145																			
02-00 2			2						2			44		20					00
02:15					1				3			41		39					80
02-45 0 - 4 2 4 2 8 14-45 8 40 7 34 15 74																			
03-00 0 0 0 0 0 0 0 0 0																			
03:15 0 0 0 0 1 15:15 10 11 21 21 03:30 03:45 0 0 1 1 1 1 1 15:45 12 40 9 48 21 88 03:46 0 0 1 1 1 1 1 1 15:45 12 40 9 48 21 88 03:46 0 0 0 0 0 0 1 16:00 10 13 3 23 16:15 19 18 0 18 0 19:15 19 18 0 19:15 19 18 0 19:15 19:1			4		4				8			40		34					74
03:30 0 0 0 0 1 1 1 1 1 15:30 10 18 28 04:00 10 0 0 1 15:30 10 18 02:00 10 10 10 13 02:00 10 10 13 02:00 10 13 02:00 10 13 02:00 10 13 02:00 10 13 02:00 10 16:00 10 16:00 10 18 02:00 10 16 02:00 10 12 02:00 10 16:00 10 16:00 10 16:00 10 16:00 10 16:00 10 16:00 10 16:00 10 11 17:00 17 17 17 17 17 18 16:00 13 18 02:00 12 18 02:00								_											
03:45 0																			
04:15 0 3 0 0 2 0 3 1 3 1 6:15 19 18 37 06:45 0 20 06:00 0 2 2 2 16:00 10 16 59 20 106 05:00 0 2 2 2 17:00 17 17 17 34 05:15 1 0 0 1 1 17:15 17 16 33 00:30 1 5 5 6 6 17:30 11 19 7 30 05:45 4 6 3 10 7 7 16 17:45 11 56 26 78 37 134 06:00 0 4 4 4 18:00 18 11 1 29 06:15 6 6 6 12 18:15 7 14 0 29 06:15 6 6 6 12 18:15 7 14 0 29 06:15 6 6 6 12 18:15 7 14 0 21 06:00 0 4 16 28 06:00 18 11 1 29 06:15 6 6 6 12 18:15 7 14 0 21 06:00 0 8 13 18 0 12 16 9 16 94 06:00 0 4 16 0 20 19:00 13 18 0 12 16 9 16 94 07:00 13 18 0 12 16 10 12 18:15 7 14 0 12 18:15 12 16 10 12 18:15 12 16 10 12 18:15 12 16 10 12 18:15 12 16 10 12 18:15		0			1				1	15:45		40	9	48				21	88
04:30								_											
0445 0 3 3 1 3 3 1 6 16:45 8 47 12 59 20 106																			
05:00			3		3				6			47		59					106
05:15		_	<u> </u>		<u> </u>				<u> </u>			<u> </u>		33					100
OS-165		1																	
06:00																			
Color			6		10				16			56		78					134
06:30 5																			
OF OF OF OF OF OF OF OF																			
O7:15		7	18	16	34			23	52			45	8	49				16	94
07:30																			
O7:45																			
08:00 10			43		75				118			35		41					76
08:30			-13		,,,				110					-1-					70
08:45 9 36 10 61 19 97 20:45 10 34 7 44 17 78																			
17			2.5																
09:15 6			36		61				97			34		44					/8
09:30																			
10:00																			
10:15 6	09:45		26		41				67			30		29					59
10:30																			
10:45																			
11:00			40		50				90			19		20					39
11:30																			
11:45 6 32 19 44 25 76 23:45 2 13 3 17 5 30 TOTALS 212 330 542 TOTALS 436 496 932 SPLIT % 39.1% 60.9% 36.8% SPLIT % 46.8% 53.2% 63.29																			
TOTALS 212 330 542 TOTALS 436 496 932 SPLIT % 39.1% 60.9% 36.8% SPLIT % 46.8% 53.2% 63.29 DAILY TOTALS NB SB EB WB WB Total AM Peak Hour AM Peak Hour Pk Hr Factor 07:15 06:45 07:30 PM Peak Hour Pk Volume 57 78 134 Pk Hr Factor Pk Hr Factor Pk Hr Factor 0.792 0.750 0.905 0.905 7 - 9 Volume 79 136 0 0 215 4 - 6 Volume 103 137 0 240 7 - 9 Peak Hour O7:15 07:30 07:30 4 - 6 Peak Hour 17:00 17:00 17:00 17:00 7 - 9 Pk Volume 49 77 0 0 125 4 - 6 Pk Volume 56 78 0 134			22		4.4				70			13		17					20
SPLIT % 39.1% 60.9% 36.8% SPLIT % 46.8% 53.2% 63.29 DAILY TOTALS NB SB EB WB Total AM Peak Hour 07:15 06:45 07:30 PM Peak Hour 17:15 17:00 17:00 17:00 17:00 17:00 17:00 17:00 17:00 13:4 134 Pk Hr Factor 0.792 0.750 0.905 0.905 7-9 Volume 79 136 0 0 215 4-6 Volume 103 137 0 240 7-9 Peak Hour 07:15 07:30 07:30 4-6 Peak Hour 17:00 17:00 17:00 7-9 Pk Volume 49 77 0 0 125 4-6 Pk Volume 56 78 0 134		D		19				25					3					5	
NB SB EB WB Total 1,474																			
AM Peak Hour 07:15 06:45 07:30 PM Peak Hour 17:15 17:00 17:00 17:00 AM Pk Volume 49 78 125 PM Pk Volume 57 78 134 Pk Hr Factor 0.817 0.780 0.781 Pk Hr Factor 0.792 0.750 0.905 7 - 9 Volume 79 136 0 215 4 - 6 Volume 103 137 240 7 - 9 Pk Volume 49 77 0 0 125 4 - 6 Pk Volume 56 78 0 134	SPLIT %		39.1%		60.9%				36.8%	SPLIT %		46.8%		53.2%					63.2%
AM Peak Hour 07:15 06:45 07:30 PM Peak Hour 17:15 17:00 17:00 17:00 AM Pk Volume 49 78 125 PM Pk Volume 57 78 134 Pk Hr Factor 0.817 0.780 0.781 Pk Hr Factor 0.792 0.750 0.905 7-9 Volume 79 136 0 0 215 4-6 Volume 103 137 0 0 240 7-9 Peak Hour 07:15 07:30 0 07:30 4-6 Peak Hour 17:00 17:00 17:00 17:00 7-9 Pk Volume 49 77 0 0 125 4-6 Pk Volume 56 78 0 0 134		ת		ΌΤΑ	ALS.			SB		EB									
AM Pk Volume Pk Hr Factor 49 78 125 PM Pk Volume 57 78 134 Pk Hr Factor 0.817 0.780 0.781 Pk Hr Factor 0.792 0.750 0.905 7 - 9 Volume 79 136 0 215 4 - 6 Volume 103 137 0 240 7 - 9 Peak Hour 07:15 07:30 0 125 4 - 6 Peak Hour 17:00 17:00 17:00 17:00 7 - 9 Pk Volume 49 77 0 125 4 - 6 Pk Volume 56 78 0 134			AUET	-01 <i>F</i>	TLJ		648	826		0		0						1,4	74
Pk Hr Factor 0.817 0.780 0.781 Pk Hr Factor 0.792 0.750 0.905 7 - 9 Volume 79 136 0 215 4 - 6 Volume 103 137 0 240 7 - 9 Peak Hour 07:15 07:30 0 0.730 4 - 6 Peak Hour 17:00 17:00 17:00 7 - 9 Pk Volume 49 77 0 125 4 - 6 Pk Volume 56 78 0 0 134	AM Peak Hour		07:15		06:45				07:30	PM Peak Hour		17:15		17:00					17:00
7 - 9 Volume 79 136 0 215 4 - 6 Volume 103 137 0 0 240 7 - 9 Peak Hour 07:15 07:30 0 07:30 4 - 6 Peak Hour 17:00 17:00 17:00 7 - 9 Pk Volume 49 77 0 0 125 4 - 6 Pk Volume 56 78 0 0 134	AM Pk Volume		49		78				125	PM Pk Volume		57		78					134
7 - 9 Peak Hour 07:15 07:30 07:30 4 - 6 Peak Hour 17:00 17:00 17:00 7 - 9 Pk Volume 49 77 0 0 125 4 - 6 Pk Volume 56 78 0 0 134																			0.905
7 - 9 Pk Volume 49 77 0 0 125 4 - 6 Pk Volume 56 78 0 0 134																			
																			17:00
PK NT FACTOR U.517 U.77U U.77U U.781 PK NT FACTOR U.824 U.75U 0.905																			
	Pk Hr Factor		0.817		0.770	0.000	0.0	UU	0.781	PK Hr Factor		0.824		0.750	0.0	UÜ	0.000		0.905

VOLUME

37 - Palm Ave Bet. Lake Dr & Del Monte Blvd (36.684247, -121.805198)

	DAILY TOTA	16		NB		SB		EB	W	В					To	otal	
	DAILT TOTA	LS		0		0		1,827	1,7	22					3,549		
AM Period	NB SB	EE		WB		TO	TAL	PM Period	NB	SB	EB		WB		TO	TAL	
00:00		3		4		7		12:00			22		21		43		
00:15 00:30		4 2		2 3		6		12:15 12:30			21 25		33 22		54 47		
00:30		1	10	4	13	5 5	23	12:45			26	94	23	99	49	193	
01:00		0	10	3	13	3		13:00			25		18	- 33	43	133	
01:15		4		3		7		13:15			18		27		45		
01:30 01:45		2	6	2	10	4	16	13:30 13:45			29 30	102	26 20	91	55 50	193	
02:00		0	0	1	10	1	10	14:00			26	102	19	91	45	195	
02:15		1		1		2		14:15			27		26		53		
02:30		0		1	_	1		14:30			29		41		70		
02:45		1	2	0	3	0	5	14:45 15:00			43	125	27	113	70	238	
03:00 03:15		0 1		0		1		15:15			32 37		33 41		65 78		
03:30		2		3		5		15:30			41		33		74		
03:45		1	4	1	4	2	8	15:45			29	139	37	144	66	283	
04:00		2		2		4		16:00			24		40		64		
04:15 04:30		2		1 0		3		16:15 16:30			20 30		47 32		67 62		
04:45		5	12	2	5	7	17	16:45			30	104	43	162	73	266	
05:00		10		2		12		17:00			27		32		59		
05:15		5		1		6		17:15			27		51		78		
05:30 05:45		13 12	40	1 1	5	14 13	45	17:30 17:45			33 24	111	37 43	163	70 67	274	
06:00		17	40	5	Э	22	43	18:00			16	111	29	103	45	2/4	
06:15		17		5		22		18:15			18		24		42		
06:30		15		9		24		18:30			20		32		52		
06:45		30 43	79	5	24	35 51	103	18:45 19:00			29 14	83	23	108	52 36	191	
07:00 07:15		43 54		8 15		69		19:15			14 17		26		43		
07:30		65		23		88		19:30			17		16		33		
07:45		49	211	29	75	78	286	19:45			19	67	28	92	47	159	
08:00		39		43		82		20:00			8		26		34		
08:15 08:30		40 66		50 45		90 111		20:15 20:30			12 8		25 17		37 25		
08:45		57	202	25	163	82	365	20:45			17	45	23	91	40	136	
09:00		26		15		41		21:00			12		13		25		
09:15		20		13		33		21:15			9		19		28		
09:30 09:45		30 21	97	13 11	52	43 32	149	21:30 21:45			7 12	40	22 14	68	29 26	108	
10:00		17	97	16	32	33	149	22:00			9	40	18	00	27	100	
10:15		29		12		41		22:15			3		14		17		
10:30		22		20		42		22:30			8		12		20		
10:45 11:00		22 21	90	10 18	58	32 39	148	22:45 23:00			<u>5</u>	25	<u>7</u> 7	51	12 13	76	
11:00		21		28		52		23:15			5		, 12		17		
11:30		38		36		74		23:30			2		6		8		
11:45		40	123	16	98	56	221	23:45			3	16	5	30	8	46	
TOTALS			876		510		1386	TOTALS				951		1212		2163	
SPLIT %			63.2%		36.8%		39.1%	SPLIT %				44.0%		56.0%		60.9%	
	DAUNTOTA	ıc		NB		SB		ЕВ	W	В					To	otal	
	DAILY TOTA	LS		0		0		1,827	1,7	22					3,5	549	
AM Peak Hour			07:00		07:45		08:00	PM Peak Hour				14:45		16:45		14:45	
AM Pk Volume			211		167		365	PM Pk Volume				153		163		287	
Pk Hr Factor			0.812		0.835		0.822	Pk Hr Factor				0.890		0.799		0.920	
7 - 9 Volume			413		238		651	4 - 6 Volume				215		325		540	
7 - 9 Peak Hour			07:00		07:45		08:00	4 - 6 Peak Hour				16:45		16:45		16:45	
7 - 9 Pk Volume Pk Hr Factor			211 0.812		167 0.835		365 0.822	4 - 6 Pk Volume Pk Hr Factor				117 0.886		163 0.799		280 0.897	
PK HI FACTOR	0.000	9.000	0.812		0.835		0.822	FR HI FACLUS	0.0	00	0.000	0.880		0.799		0.097	

VOLUME

38 - Abrams Dr Bet. Preston Dr & Imjin Pkwy (36.665738, -121.775771)

	D	AILY 1	TOT/	VI C		NB	9	В	EB		WB						To	tal
	יט	AILT	1014	ALS		1,430	1,0	636	0		0						3,0	066
AM Period	NB		SB		ЕВ	WB		TOTAL	PM Period	NB		SB		ЕВ	WB			TAL
00:00 00:15	1 2		0 2					1 4	12:00 12:15	22 22		17 19					39 41	
00:30	2		3					5	12:30	16		15					31	
00:45 01:00	3	6	0	5				<u>1 11</u> 3	12:45 13:00	29 21	89	14 23	65				43 44	154
01:15	2		0					2	13:15	19		26					45	
01:30 01:45	1 2	8	3 1	4				4 3 12	13:30 13:45	24 20	84	25 19	93				49 39	177
02:00	1 0		1					2	14:00	20		19 27					39 46	
02:15 02:30	2		1 1					1 3	14:15 14:30	19 15		32					47	
02:45 03:00	2	3	0	4				1 7 2	14:45 15:00	15 26	69	19 25	97				34 51	166
03:15	1		1					2	15:15	24		21					45	
03:30 03:45	2	5	0 1	2				2 1 7	15:30 15:45	23 23	96	40 17	103				63 40	199
04:00	1		1					2	16:00	34	30	20	103				54	133
04:15 04:30	0		3 7					3 7	16:15 16:30	28 36		29 29					57 65	
04:45	2	3	7	18			9	9 21	16:45	34	132	17	95				51	227
05:00 05:15	0 4		5 6					5 .0	17:00 17:15	25 24		22 22					47 46	
05:30	1		12				1	.3	17:30	43		31					74	
05:45 06:00	8	6	6 16	29				7 35 4	17:45 18:00	27 34	119	19 23	94				46 57	213
06:15	4		20				2	4	18:15	24		17					41	
06:30 06:45	13 18	43	37 43	116				0 1 159	18:30 18:45	26 25	109	23 21	84				49 46	193
07:00	19	-13	54	110			7	'3	19:00	30	103	25	01				55	133
07:15 07:30	7 11		68 78					'5 '9	19:15 19:30	27 35		13 13					40 48	
07:45	19	56	33	233			5	2 289	19:45	19	111	16	67				35	178
08:00 08:15	19 21		34 22					3 3	20:00 20:15	23 25		16 19					39 44	
08:30	11		25				3	6	20:30	25		14					39	
08:45 09:00	18 14	69	20 31	101				8 170 5	20:45 21:00	26 16	99	14 7	63				40 23	162
09:15	20		23				4	.3	21:15	17		14					31	
09:30 09:45	14 10	58	24 19	97				8 9 155	21:30 21:45	25 19	77	16 10	47				41 29	124
10:00	11		16				2	:7	22:00	14		12					26	
10:15 10:30	4 18		14 19					.8 .7	22:15 22:30	9		6 11					15 19	
10:45	17	50	8	57			2	5 107	22:45	11	42	9	38				20	80
11:00 11:15	20 14		22 21				3	.2 5	23:00 23:15	9 13		6					12 19	
11:30	12 13	59	43 21	107				5 4 166	23:30	10 5	37	5 3	17				15 8	E.4
11:45 TOTALS	13	366	21	773			3	1139	23:45 TOTALS	3	1064	3	17 863				Ó	54 1927
SPLIT %		32.1%		67.9%				37.1%	SPLIT %		55.2%		44.8%					62.9%
JELII /6		32.1/0		07.570									14.070					
	D	AILY 1	TOT <i>t</i>	ALS		NB 1,430		636	EB 0		 							otal 066
						1,430	1,										3,0	
AM Peak Hour AM Pk Volume		11:45 73		06:45 243				06:45 298	PM Peak Hour PM Pk Volume		16:00 132		15:30 106					16:00 227
Pk Hr Factor		0.830		0.779				0.837	Pk Hr Factor		0.917		0.663					0.873
7 - 9 Volume		125		334	0		0	459	4 - 6 Volume		251		189	C)	0		440
7 - 9 Peak Hour 7 - 9 Pk Volume		07:30 70		07:00 233				07:00 289	4 - 6 Peak Hour 4 - 6 Pk Volume		16:00 132		16:15 97					16:00 227
Pk Hr Factor		0.833		0.747	0.00	0 (0.000	0.812	Pk Hr Factor		0.917		0.836	0.0	000	0.000		0.873

VOLUME

39 - Preston Dr Bet. Abrams Dr & Imjin Pkwy (36.669623, -121.771631)

	DAILY TOTALS							NB SB			EB WB							
	DA	TLY I	UTA	L3		972	7	36	0		0						1,	708
AM Period	NB		SB		EB	WB		TOTAL	PM Period	NB		SB		ЕВ	W	В	ТО	TAL
00:00	1		2					3	12:00	11		8					19	
00:15 00:30	3 2		0					3	12:15 12:30	9 15		9					18 28	
00:30	1	7	2 0	4				4 1 11	12:45	10	45	13 12	42				28	87
01:00	4		1	•				5	13:00	13		14					27	<u> </u>
01:15	1		1					2	13:15	14		5					19	
01:30	0	,	1 0	2				1 0	13:30	14	F2	5	20				19 17	02
01:45 02:00	1	6	1	3				1 <u>9</u> 2	13:45 14:00	11 13	52	6 11	30				24	82
02:15	2		0					2	14:15	11		9					20	
02:30	0		0					0	14:30	25		7					32	
02:45	0	3	1	2				1 5	14:45	15	64	10	37				25	101
03:00 03:15	1 0		0 1					1 1	15:00 15:15	15 8		10 11					25 19	
03:30	0		0					0	15:30	12		10					22	
03:45	0	1	0	1				0 2	15:45	21	56	15	46				36	102
04:00	0		0					0	16:00	23		10					33	
04:15	0		3					3	16:15	26		6					32	
04:30 04:45	1 3	4	4 3	10				5 6 14	16:30 16:45	26 23	98	14 9	39				40 32	137
05:00	0		0	10				0 14	17:00	31	36	22	33				53	137
05:15	1		1					2	17:15	34		13					47	
05:30	0		7					7	17:30	24		15					39	
05:45	0	1	5	13				5 14	17:45	23	112	19	69				42	181
06:00 06:15	2 1		6 13					8 .4	18:00 18:15	21 25		14 14					35 39	
06:30	4		4					. 4 8	18:30	13		7					20	
06:45	8	15	13	36				1 51	18:45	13	72	8	43				21	115
07:00	11		9					20	19:00	13		13					26	
07:15	14		15					.9	19:15	22		10					32	
07:30 07:45	10 14	49	18 25	67				!8 !9 116	19:30 19:45	18 15	68	12 11	46				30 26	114
08:00	21	49	17	07				110 18	20:00	15	00	6	40				21	114
08:15	5		16					1	20:15	11		7					18	
08:30	7		15					2	20:30	10		9					19	
08:45	12	45	9	57				1 102	20:45	12	48	6	28				18	76
09:00 09:15	8 10		16 12					!4 !2	21:00 21:15	16 19		4 2					20 21	
09:30	9		8					.z .7	21:30	18		9					27	
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10:30 10:45	7 7	32	8 10	25				.5 .7 67	22:30 22:45	7 11	37	6 3	21				13 14	58
11:00	7	34	9	35				./ 6/ .6	23:00	6	3/	2	21				8	30
11:15	12		3					.5	23:15	4		1					5	
11:30	14		5					.9	23:30	4		1					5	
11:45	9	42	12	29			2	1 71	23:45	1	15	1	5				2	20
TOTALS		237		305				542	TOTALS		735		431					1166
SPLIT %	4	43.7%		56.3%				31.7%	SPLIT %		63.0%		37.0%					68.3%
	D4	II V T	OTA	16		NB		В	EB		WB						Tc	otal
	DA	ILY T	UTA	L3		972	7	36	0		0						1,	708
AM Peak Hour		07:15		07:30				07:15	PM Peak Hour		16:30		17:00					17:00
AM Pk Volume		59		76				134	PM Pk Volume		114		69					181
Pk Hr Factor		0.702		0.760				0.859	Pk Hr Factor		0.838		0.784					0.854
7 - 9 Volume		94		124	0		0	218	4 - 6 Volume		210		108	C)	0		318
7 - 9 Peak Hour		07:15		07:30				07:15	4 - 6 Peak Hour		16:30		17:00					17:00
7 - 9 Pk Volume		59		76				134	4 - 6 Pk Volume		114		69					181
Pk Hr Factor		0.702		0.760	0.000	0	0.000	0.859	Pk Hr Factor		0.838		0.784	0.0	000	0.000		0.854

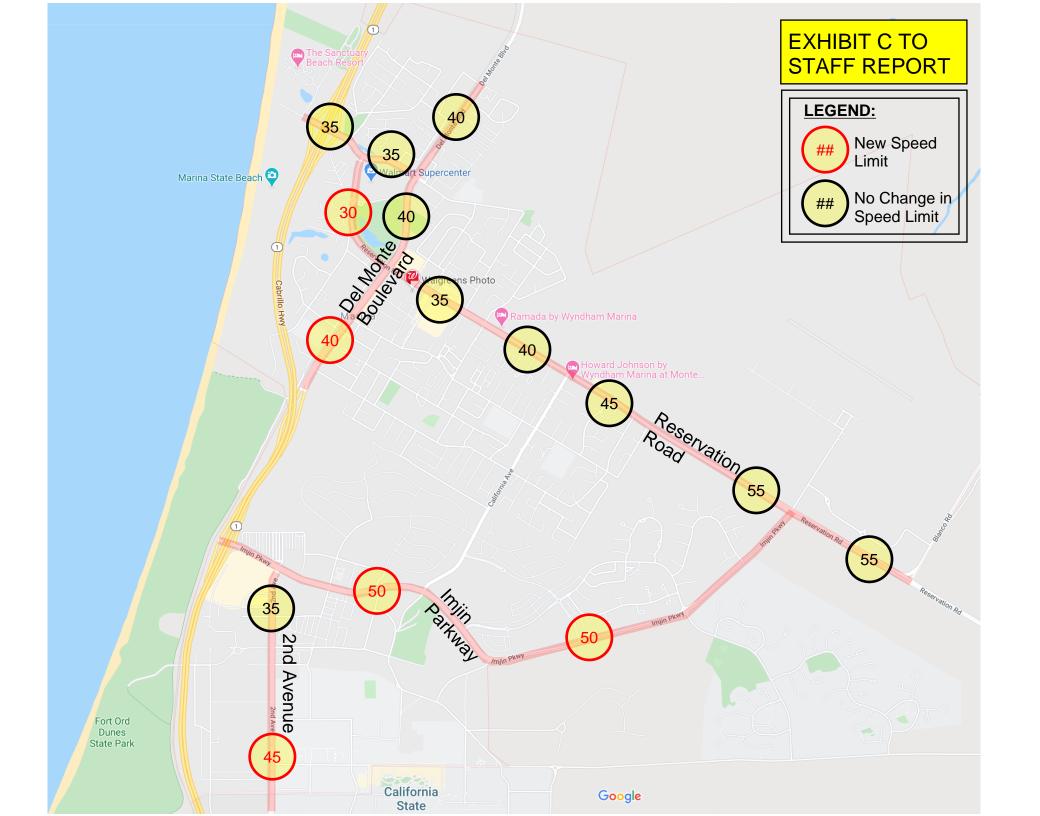
VOLUME

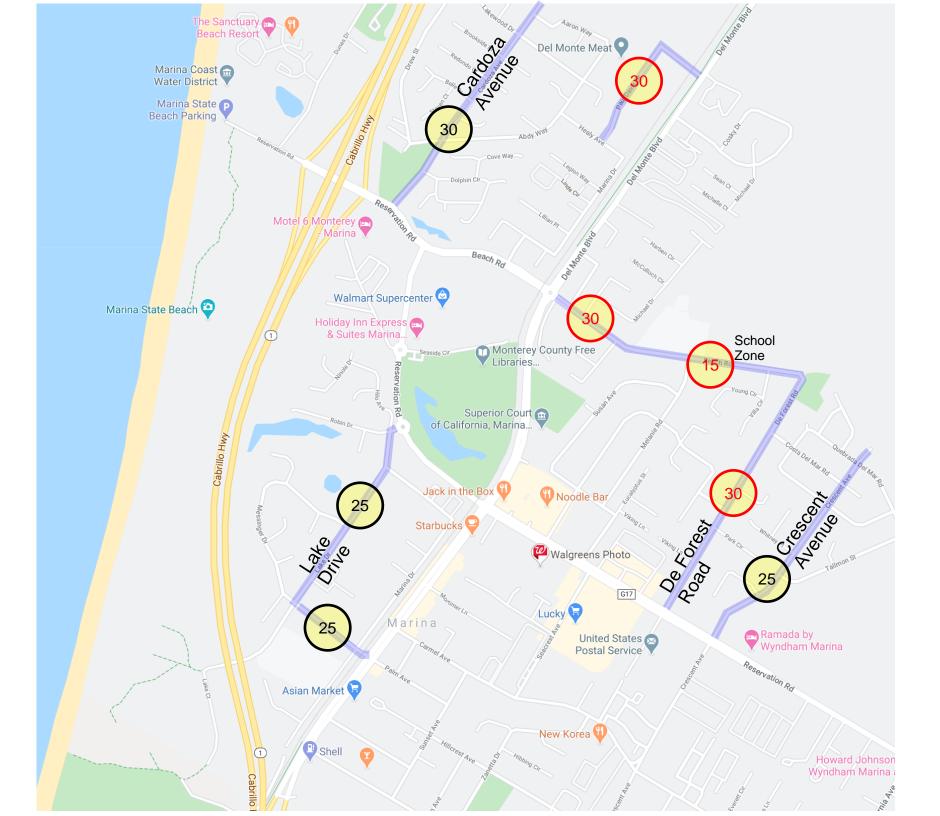
40 - 3rd Ave Bet. Imjin Pkwy & 8th St (36.665263, -121.804971)

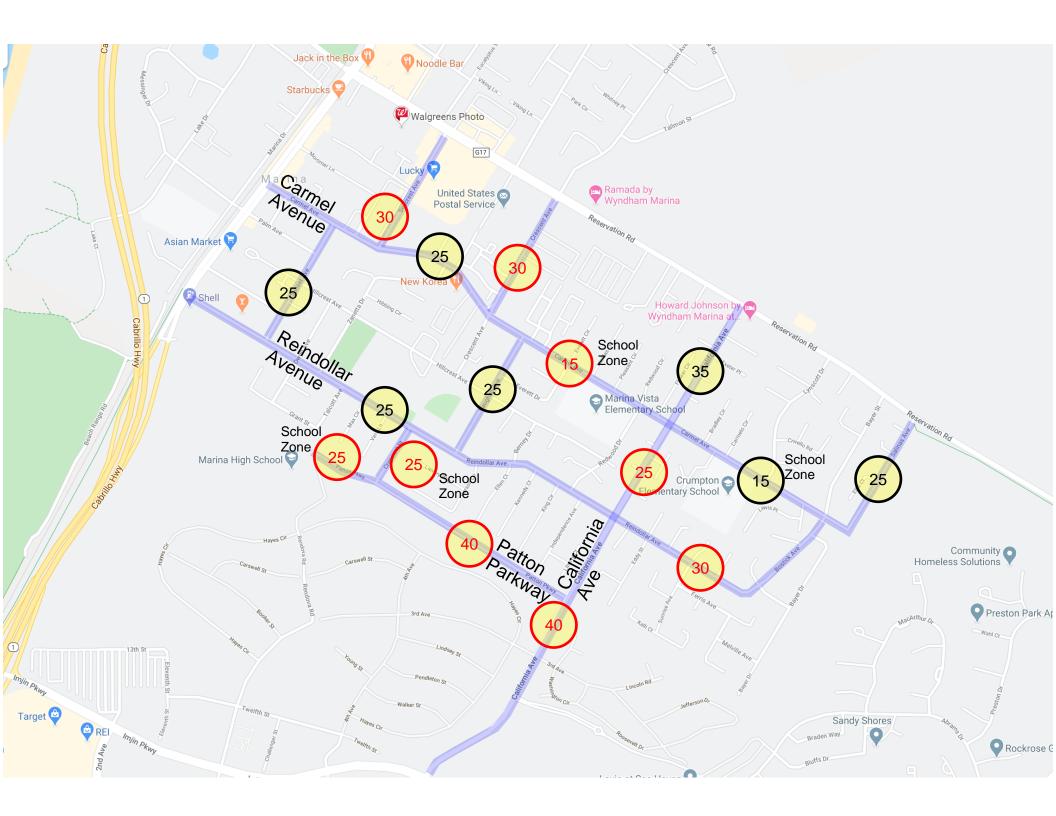
 Day:
 Wednesday
 City:
 Marina

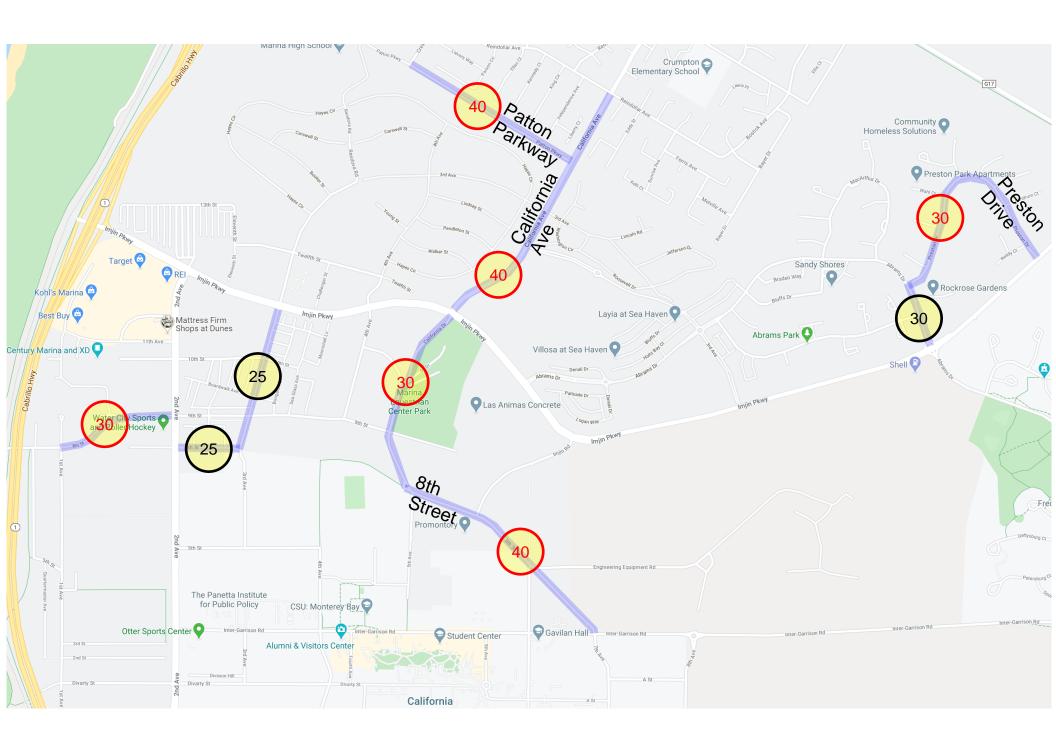
 Date:
 5/23/2018
 Project #: CA18_8264_040

DAILY TOTALS						NB SB				EB WB						То	tal		
	DA	ILY I	OTA	(L)		368		635		0		0						1,0	003
AM Period	NB		SB		ЕВ	WB		TO	TAL	PM Period	NB		SB		ЕВ	WE	В	TO	TAL
00:00	0		0					0		12:00	9		5					14	
00:15	1		0					1		12:15	8		10					18	
00:30 00:45	2	3	2 0	2				4 0	5	12:30 12:45	10 4	31	9 14	38				19 18	69
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01:15	Ö		Ö					0		13:15	3		9					12	
01:30	0		0					0		13:30	4		7					11	
01:45	0		0					0		13:45	8	20	5	29				13	49
02:00 02:15	0		0 1					0 1		14:00 14:15	4 5		4 7					8 12	
02:30	0		0					0		14:30	2		6					8	
02:45	1	1	0	1				1	2	14:45	10	21	16	33				26	54
03:00	0		0					0		15:00	14		9					23	
03:15	1		0					1		15:15	5		8					13	
03:30	0	1	0 0					0	1	15:30 15:45	11 9	20	10	20				21 12	co
03:45 04:00	0	1	0					0		16:00	12	39	<u>3</u>	30				21	69
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04:45	1	1	1	2				2	3	16:45	7	42	11	37				18	79
05:00	0		0					0		17:00	14		7					21	
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05:45	3	4	0	2				3	6	17:45	5 7	33	5	31				12	64
06:00	1	-	3					4		18:00	8		3					11	- 01
06:15	3		3					6		18:15	6		3					9	
06:30	1		10					11		18:30	7		4					11	
06:45	1	6	10	26				11	32	18:45	3	24	4	14				7	38
07:00 07:15	4 3		18 73					22 76		19:00 19:15	6 4		3 8					9 12	
07:30	10		82					92		19:30	1		4					5	
07:45	11	28	45	218				56	246	19:45	2	13	3	18				5	31
08:00	4		24					28		20:00	3		4					7	
08:15	4		13					17		20:15	1		2					3	
08:30	6 8	22	10 8					16 16	77	20:30 20:45	1		4	12				5 4	10
08:45 09:00	7	22	3	55				10	77	21:00	<u>1</u> 1	6	<u>3</u>	13				2	19
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09:30	2		3					5		21:30	0		4					4	
09:45	3	13	8	20				11	33	21:45	4	8	2	9				6	17
10:00	9		3					12		22:00	3		1					4	
10:15 10:30	4 7		7 6					11 13		22:15 22:30	0 1		0 0					0	
10:45	12	32	7	23				19	55	22:45	1	5	3	4				4	9
11:00	4	<u> </u>	6					10	- 55	23:00	0		1	•				1	
11:15	4		10					14		23:15	0		1					1	
11:30	3		4					7		23:30	0		1	_				1	
11:45	4	15	6	26				10	41	23:45	0		1	4				1	4
TOTALS		126		375					501	TOTALS		242		260					502
SPLIT %		25.1%		74.9%					50.0%	SPLIT %		48.2%		51.8%					50.0%
	DΔ	ILY T	OTA	us		NB		SB		EB		WB							otal
	- DF	al I	O I F	(L)		368		635		0		0						1,0	003
AM Peak Hour		10:00		07:15					07:15	PM Peak Hour		15:45		14:45					14:45
AM Pk Volume		32		224					252	PM Pk Volume		44		43					83
Pk Hr Factor		0.667		0.683					0.685	Pk Hr Factor		0.786		0.672					0.798
7 - 9 Volume		50		273	0		0		323	4 - 6 Volume		75		68	0		0		143
7 - 9 Peak Hour		07:30		07:15					07:15	4 - 6 Peak Hour		16:15		16:00					16:00
7 - 9 Pk Volume		29		224					252	4 - 6 Pk Volume		44		37					79
Pk Hr Factor		0.659		0.683	0.000		0.000		0.685	Pk Hr Factor		0.786		0.841	0.00	00	0.000		0.823









May 15, 2020 Item No. **11a**

Honorable Mayor and Members of the Marina City Council

City Council Meeting of May 19, 2020

CITY COUNCIL CONSIDER ADOPTING RESOLUTION NO. 2020-, APPROVING THE 2020 ENGINEERING AND TRAFFIC SURVEY WITH PROPOSED SPEED LIMIT REVISIONS, AND; AUTHORIZE A BUDGET APPROPRIATION OF \$45,000 OF GAS TAX/STREET FUND FOR SIGNS AND SUPPLIES, AND; AUTHORIZE THE FINANCE DIRECTOR TO MAKE NECESSARY ACCOUNTING AND BUDGETARY ENTRIES, AND; CONSIDER INTRODUCING ORDINANCE NO. 2020- FOR FIRST READING BY TITLE ONLY, AND WAIVING FURTHER READING, AMENDING SECTION 10.60.010 "SPEED LIMITS ESTABLISHED" OF CHAPTER 10.60 "SPEED LIMITS" OF TITLE 10 "VEHICLES AND TRAFFIC" OF THE MUNICIPAL CODE TO ADOPT PRIMA FACIE SPEED LIMITS PURSUANT TO ENGINEERING AND TRAFFIC SURVEY AND THE CALIFORNIA VEHICLE CODE (CVC)

REQUEST:

It is requested that the City Council:

- 1. Consider adopting Resolution No. 2020-, approving the 2020 Engineering and Traffic Survey with proposed speed limit revisions, and;
- 2. Authorize a budget appropriation of \$45,000 of Gas Tax/Street Fund for signs and supplies, and;
- 3. Authorize the Finance Director to make necessary accounting and budgetary entries, and;
- 4. Consider introducing Ordinance No. 2020-, for first reading by title only and waive further reading, amending Section 10.60.010 "Speed Limits Established" of Chapter 10.60 "Speed Limits" of Title 10 "Vehicles and Traffic" to adopt *prima facie* speed limits¹ pursuant to an engineering and traffic survey and the California Vehicle Code (CVC).

BACKGROUND:

California Vehicle Code (CVC) section 40802b requires that Engineering and Traffic Surveys for speed limits must be conducted once every five years by governing municipalities.

In order for the speed limit on a collector or arterial street to be enforceable by the Police Department through the use of radar or other electronic device to measure speed, the speed limit must be set in accordance with an Engineering and Traffic Survey. The California Vehicle Code states that if a posted speed limit is not justified by a traffic and engineering survey, the City may not prove a violation of the posted limit by the use of radar or any other electronic device (CVC 40802).

¹ *Prima facie* speed limits, as used in California and some other states, are not absolute limits. A motorist may have a valid defense to exceeding the *prima facie* speed limit if he or she can prove in a court that his or her speed was reasonable and prudent.

On March 23, 2018, the City entered into a Service Agreement with the on-call traffic engineering firm TJKM of Pleasanton, California to conduct and draft an engineering and traffic survey.

On August 7, 2018, the City Traffic Advisory Committee conducted a review of the draft Engineering and Traffic survey and provided comments to TJKM for final consideration by the City Council.

On October 16, 2018, the Engineering and Traffic Survey was presented to the City Council for consideration and approval. The Council provided comments to staff regarding several recommended speed reductions and requested a revision to the Study report.

At the special meeting of April 14, 2020, the City Council requested public comments to be sent to the City for response by the Survey's Traffic Engineer. The deadline for submittal of public comments was April 28, 2020. The comments were collected and included as "Exhibit A".

ANALYSIS:

The setting of speed limits requires a rational and defensible procedure to maintain the confidence of the public and legal systems. Speed limit determinations rely on the premise that a reasonable speed limit is one that conforms to the actual behavior of most drivers; one will be able to select a speed limit that is both reasonable and effective by measuring drivers' speeds.

According to the latest California Manual on Uniform Traffic Control Devices, the posted speed limit shall be established at the nearest 5 mph increment of the 85th percentile speed of free-flowing traffic. Should the 85th percentile need to be rounded up, a rounding down to the lower 5 mph can be applied (CVC 21400). Should the 85th percentile need to be rounded down or not rounded at all (i.e. the 85th percentile is on a 5 mph increment), a 5 mph reduction can be applied. In either case, the conditions and justifications for applying a 5 mph reduction to the 85th percentile speed need to be documented in the Engineering and Traffic Survey and approved by a registered Civil or Traffic Engineer.

The standardized engineering principles that would govern the Engineer's approval of a speed limit reduction of 5 mph from the 85th percentile would be: 1) roadside conditions not readily apparent to the driver, 2) accident records, 3) prevailing speeds, 4) residential density, and 5) pedestrian/bicycle safety.

On **May 15, 2020,** staff received the Traffic Engineer's final revised draft of the 2020 Citywide Engineering and Traffic Survey Report ("Exhibit B"), provided by TJKM. The report details the survey of all City arterial and collector streets as defined in the City's General Plan.

After reviewing the submitted public comments, the Traffic Engineer was able to make the engineering findings to justify revising the survey to the following speed limits on these segments:

- Segment 7 Reservation Road, Beach Road to Del Monte Boulevard; **30 MPH**
- Segment 17 Crescent Avenue, Ouebrada Del Mar to Reservation Road: 25 MPH
- Segment 19 Cardoza Avenue, Reservation Road to Aaron Way (end); 30 MPH
- Segment 21 California Avenue, Reservation Road to Carmel Avenue; **35 MPH**
- Segment 22 California Avenue, Carmel Avenue to Reindollar Avenue; **25 MPH**
- Segment $40 3^{rd}$ Avenue, Imjin Parkway to 8^{th} Street; **25 MPH**

A summary of the recommended speed limits can be seen in "**Exhibit C**". The recommended speed limits and Survey will be effective for 5 years from the date of adoption.

The City of Marina's Traffic Advisory Committee, consisting of the Fire Chief, Police Chief, Public Works Director, and Community Development Director, concurs with the findings and recommends establishing the speed limits as described above based on the recommendations of the 2020 Engineering and Traffic Survey. The adoption of the recommended speed limits will support effective enforcement of these speeds, where not adopting the recommendations may severally limit enforcement and may lead to a greater speed increase on City streets.

FISCAL IMPACT:

The CVC provides that the new speed limit is enforceable when signs are erected giving notice of the new limits. The cost to purchase and install a new speed limit sign is approximately \$250 per location and approximately \$500 per road marking location. The estimated cost for new speed limit signs and road markings is \$45,000.00. Should the City Council approve this request, the City Finance Director will make all necessary accounting and budgetary entries to appropriate funding from Fiscal Year 2019-20, Gas Tax/Street Funds for signs & supplies.

CONCLUSION:

Respectfully submitted,

The adoption of the ordinance shall come back to the City Council at the next schedule meeting. Adoption of the Resolution and ordinance will allow for effective speed enforcement. This request is submitted for City Council consideration and possible action.

Edrie Delos Santos, P.E.
Senior Engineer, Engineering Division
Public Works Department
City of Marina

REVIEWED/CONCUR:

Brian McMinn, P.E., P.L.S. Public Works Director/City Engineer City of Marina

Layne P. Long
City Manager

City of Marina