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West Portal Transit Delay Reduction Pilot

Data Summary

Date: February 7, 2020

Project Website: <https://www.sfmta.com/westportalpilot>

Contact: Tony Henderson, tony.henderson@sfmta.com

Introduction

The San Francisco Municipal Transportation Agency (SFMTA) implemented the West Portal Transit Delay Reduction Pilot (Pilot) in June 2019 with the goal of reducing Muni light-rail travel time near West Portal Station. The [Data Collection Plan¹](#) (Plan) was developed, with feedback incorporated from stakeholders, to guide evaluation of the Pilot.

Throughout the Pilot, staff collected data as laid out in the Plan. The data is presented in the following sections, along with concise summaries explaining what the data means.

- Transit Travel Time Data
- Transit Vehicle Queuing
- Parking Occupancy
- Collisions
- Sales Tax Data
- Traffic Volume Counts
- Qualitative Information

This document provides a summary of data only and intentionally provides only high-level analysis and no final recommendations. Instead, the purpose of this document is to provide Pilot data in as transparent of manner as possible that will inform ongoing conversations with stakeholders and will ultimately inform a decision on next steps to be made by the SFMTA Board of Directors.

Background

West Portal Station is a key node in the Muni rail network, where three lines (K Ingleside, L Taraval, and M Ocean View) connect to the Twin Peaks Tunnel and the subway running beneath Market Street.

¹ <https://www.sfmta.com/reports/data-collection-plan>

Approximately 80,000 customers pass through this station each day. While there have been many upgrades to West Portal over the last 100 years, bottlenecks persist that can cause delays for Muni customers and detract from the experience of visiting West Portal. Along with planned operational improvements inside the subway, the SFMTA proposed several new ideas to the area near the portal to improve transit, traffic circulation, and pedestrian safety.

The intersection at West Portal is very complex, which leads to delays that affect Muni, private vehicles, and pedestrians. With the goal of improving the intersection, staff studied the area, looked at traffic data trends, and analyzed Muni train patterns. Based on that data, SFMTA staff came up with several recommendations and shared them with stakeholder groups, including local merchants, neighbors, and transit customers. After receiving feedback and some additional ideas, staff made considerable changes to the plans. The [project webpage](#)² lists the individual improvements that were adopted and implemented in the final Pilot plan.

Staff considered alternative treatments near the intersection including a traffic signal that were not ultimately included in the Pilot. After careful consideration, we concluded that a signal at this location would likely increase overall delay to pedestrians, vehicles and Muni alike.

Result Summary

In general, the results of the Pilot analysis show that travel times on the surface for the K, L and M Muni lines held steady or improved with the new treatments. The biggest improvements were seen on the L Taraval surface portion, likely a result of combination PCOs directing traffic, the 48 Quintara/24th Street bus stop being moved and the turn restrictions on Lennox Way. Furthermore, train queuing on West Portal Avenue reduced during the Pilot indicating an overall increase in reliability.

Within the Subway vs Surface

The travel time data in this report includes both information collected on the surface (e.g. West Portal Avenue, Ulloa Street) and inside the subway tunnels. Travel times within the subway fluctuated, which is an indication of well-known, ongoing systemic variability within the subway that is not related to the Pilot itself.

Although the Pilot treatments are not expected to have impacts on performance within the subway, this data is included to give a full picture of the challenges faced by our current system. Staff at the SFMTA are currently working on numerous initiatives to improve performance both within the subway and on the surface, as both need to work in conjunction for overall system performance. Within the subway this includes upgrades to the automatic train systems as well as other modernizations.

² <https://www.sfmta.com/westportalpilot>

Transit Travel Time

When Parking Control Officers (PCOs) were first stationed at the intersection of West Portal Avenue and Ulloa Street in early 2019, Muni delay decreased by approximately 40 percent³. The goal of the Pilot is to achieve a level of transit delay reduction while minimizing impacts to parking and neighborhood circulation.

Muni Travel Time data is recorded by automated train systems, which was then converted into median travel times for each of the analysis periods. Several time periods were analyzed in order to capture the variety of situations at West Portal Station. Four distinct months were selected in 2019, and the same months in 2018 were included to provide a year-over-year comparison.

- March – All weekdays in March were analyzed to establish a baseline without the Pilot but with PCO assistance. The SFMTA assigned PCOs to West Portal starting in February 2019.
- June – The Pilot began in June 2019, and the PCOs were present during this time. Because the Twin Peaks Tunnel construction project started in June 2018, only select dates were examined during this month to avoid data that may reflect unique construction impacts not present on an average weekday⁴. Equivalent 2019 dates were selected for an apples-to-apples comparison. School was not in session for the June dates, providing a control scenario without school.
- September – September 2019 data provides a full month of weekday data for the Pilot and PCO presence as well as school in session.
- October – In October 2019, the SFMTA pulled PCOs from West Portal Station for three weekdays to allow for data collection of the Pilot without PCO effects⁵. This allowed staff to evaluate Pilot effectiveness on its own.

This document presents the travel time data two ways: chronologically and year-over-year. Both show the same data but presenting it these two ways is intended to provide context for how travel time varies seasonally. Note that this does not include data for months in between the analysis time periods, so it may not fully capture routine seasonal variability.

This report focuses on the K Ingleside, L Taraval, and M Ocean View Muni lines, because the aim is to reduce transit delay for these three lines in the vicinity of West Portal Station. While the J Church and N Judah also operate in the subway between Van Ness and Embarcadero stations, these lines are excluded from the data for the purposes of this evaluation. Also, Muni vehicles operating in non-revenue (non-passenger) mode or operating as the S Shuttle line were not included in this analysis.

³ Measured as a reduction in time that outbound trains spent at a full stop while traveling from Forest Hill Station to West Portal Station, during peak commute periods.

⁴ June 15–24, 2018

⁵ October 22 –24, 2019

Transit Travel Time – Chronological

The following tables summarize chronological changes to transit travel time for comparable time periods in 2018 and 2019. The purpose of this data is to see overall trends in transit travel times across the analysis periods and locations. This is shown both in tables and corresponding graphs.

Table 1. Median Travel Time Between West Portal Station and Embarcadero Station (Within the Subway)

Time Period	Inbound KLM - West Portal and Embarcadero (Minutes)	Outbound KLM - West Portal and Embarcadero (Minutes)
Mar 2018 (no PCO, no pilot, school)	19.9	16.9
Jun 2018 (no PCO, no pilot, no school)	18.0	15.6
Sep 2018 (no PCO, no pilot, school)	17.7	15.7
Oct 2018 (no PCO, no pilot, school)	17.2	16.3
Mar 2019 (PCO, no pilot, school)	19.0	15.6
Jun 2019 (PCO, pilot, no school)	19.3	16.0
Sep 2019 (PCO, pilot, school)	19.0	16.7
Oct 2019 (no PCO, pilot, school)	18.0	16.7

Table 1 displays the data points in chronological order, beginning in March 2018 and ending in October 2019. Months in which the Pilot was active are highlighted in yellow. During this time period, median travel time decreased in both inbound and outbound directions for the K, L, and M lines. Compared with March 2018, the inbound direction decreased by 1.9 minutes and the outbound direction decreased by 0.2 minutes or 12 seconds.

Figure 1. Median Travel Time Between West Portal Station and Embarcadero Station (Within the Subway) Traveling Inbound

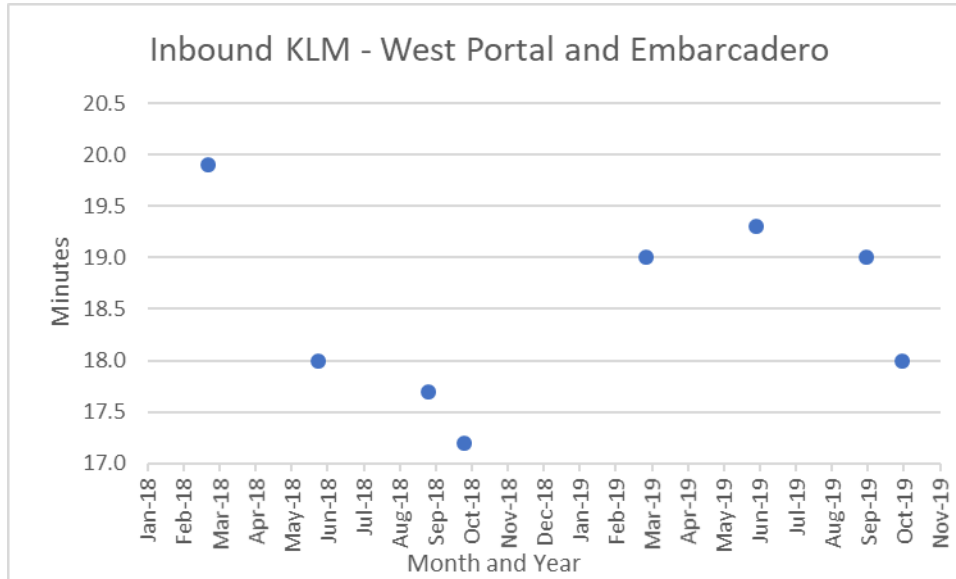


Figure 1 displays the inbound data from Table 1 on a graph. The subway fluctuated during this time period, dipping to its lowest point in October 2018 at 17.2 minutes, rising again to 19.3 minutes in June 2019, then decreasing again in September.

Figure 2. Median Travel Time Between West Portal Station and Embarcadero Station (Within the Subway) Traveling Outbound

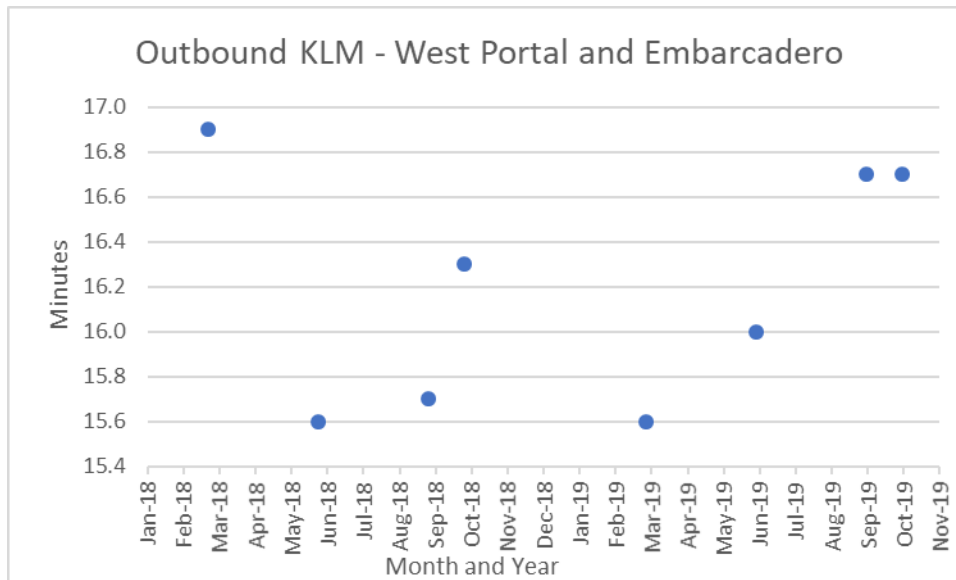


Figure 2 displays the outbound data from Table 1 on a graph. The subway travel time fluctuated in the outbound direction more than in the inbound direction for the same time period. After a dip in June 2018, travel times rose in October 2018. This was followed by another dip in March 2019, with a subsequent travel time increase in late summer and early fall 2019.

Table 2. Median Travel Time Between West Portal Station and St Francis Circle (On Surface Streets)

Time Period	Inbound KM - West Portal and St Francis (Minutes)	Outbound KM - West Portal and St Francis (Minutes)
Mar 2018 (no PCO, no pilot, school)	5.4	4.7
Jun 2018 (no PCO, no pilot, no school)	5.0	4.0
Sep 2018 (no PCO, no pilot, school)	5.0	4.0
Oct 2018 (no PCO, no pilot, school)	5.0	4.0
Mar 2019 (PCO, no pilot, school)	4.9	4.0
Jun 2019 (PCO, pilot, no school)	4.8	4.0
Sep 2019 (PCO, pilot, school)	4.8	4.0
Oct 2019 (no PCO, pilot, school)	4.8	4.0

Table 2 displays the data points in chronological order, beginning in March 2018 and ending in October 2019. Months in which the Pilot was active are highlighted in yellow. During this time period, median travel time decreased in both inbound and outbound directions for the K and M lines, traveling on West Portal Avenue between West Portal Station and Saint Francis Circle⁶. Compared with March 2018, the inbound direction decreased by 0.6 minutes or 36 seconds. In the outbound direction decreased by 0.7 minutes or 42 seconds in June 2018 and remained constant since. For this segment, the K Ingleside and M Ocean View operate above ground as a light rail, much of which is combined with general traffic.

⁶ Intersection of West Portal Avenue/Portola Drive/Saint Francis Boulevard/Junipero Serra Boulevard/Sloat Boulevard

Figure 3. Median Travel Time Between Saint Francis Circle and West Portal Station (On Surface Streets) Traveling Inbound

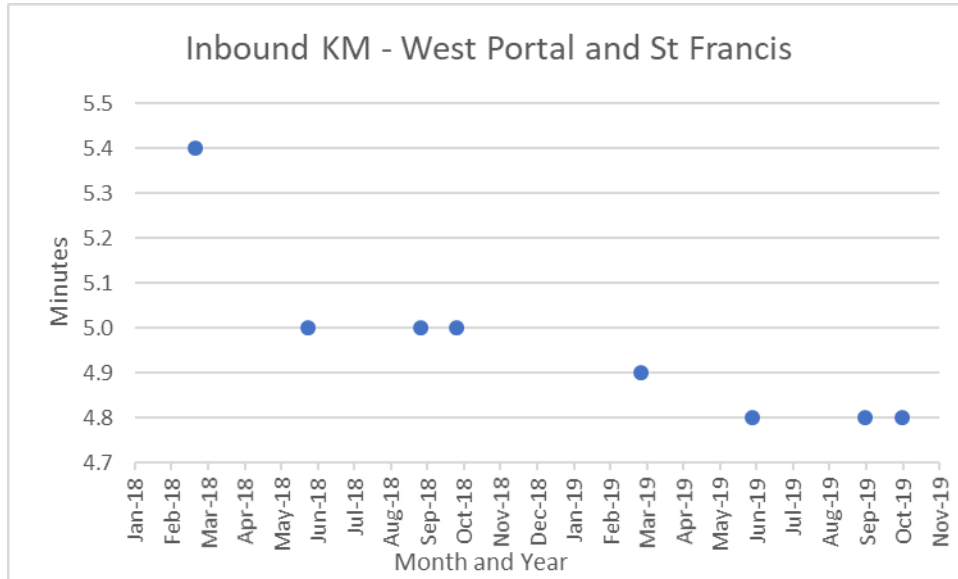


Figure 3 displays the inbound data from Table 2 on a graph. The K and M lines experienced a decline in median travel times during this time period, dropping from 5.4 minutes in March 2018 to 4.8 minutes in June 2019 and staying consistent since.

Figure 4. Median Travel Time Between West Portal Station and St Francis Circle (On Surface Streets) Traveling Outbound

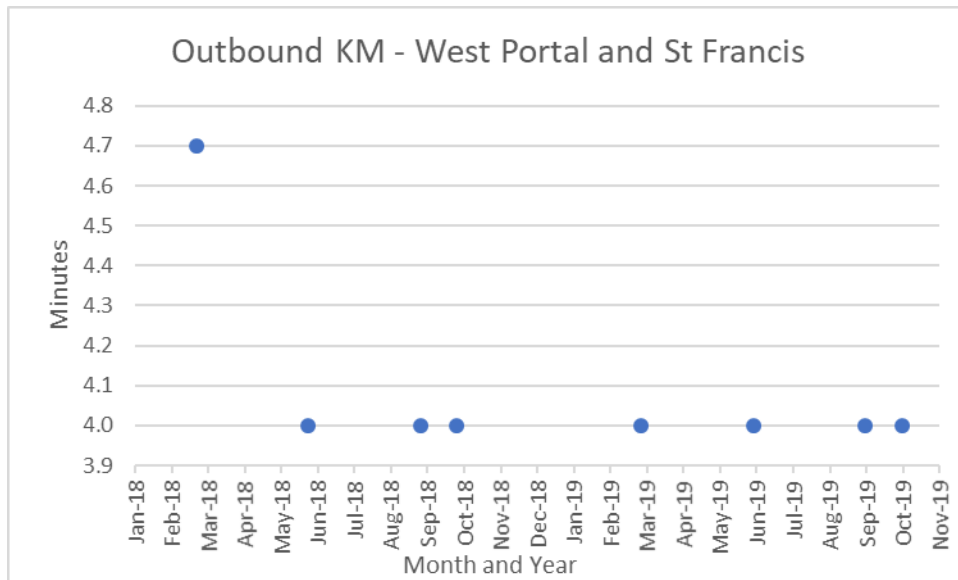


Figure 4 displays the outbound data from Table 2 on a graph. The K and M lines have stayed consistent since June 2018 at 4 minutes, after a decline from 4.7 minutes in March 2018.

Table 3. Median Travel Time Between West Portal Station and 19th Avenue (On Surface Streets)

Time Period	Inbound L - West Portal and 19th Ave (Minutes)	Outbound L - West Portal and 19th Ave (Minutes)
Mar 2018 (no PCO, no pilot, school)	7.3	7.3
Jun 2018 (no PCO, no pilot, no school)	7.0	6.0
Sep 2018 (no PCO, no pilot, school)	6.9	6.0
Oct 2018 (no PCO, no pilot, school)	6.0	5.6
Mar 2019 (PCO, no pilot, school)	6.0	6.0
Jun 2019 (PCO, pilot, no school)	6.0	5.2
Sep 2019 (PCO, pilot, school)	6.0	5.8
Oct 2019 (no PCO, pilot, school)	6.0	5.5

Table 3 displays the data points in chronological order, beginning in March 2018 and ending in October 2019. Months in which the Pilot was active are highlighted in yellow. During this time period, median travel time decreased in both inbound and outbound directions for the L Taraval line. Compared with March 2018, the inbound direction decreased by 1.3 minutes and the outbound direction decreased by 1.8 minutes. For this segment, the L Taraval is the only LRV line that operates between West Portal and 19th Avenue.

Figure 5. Median Travel Time Between 19th Avenue and West Portal Station (On Surface Streets) Traveling Inbound

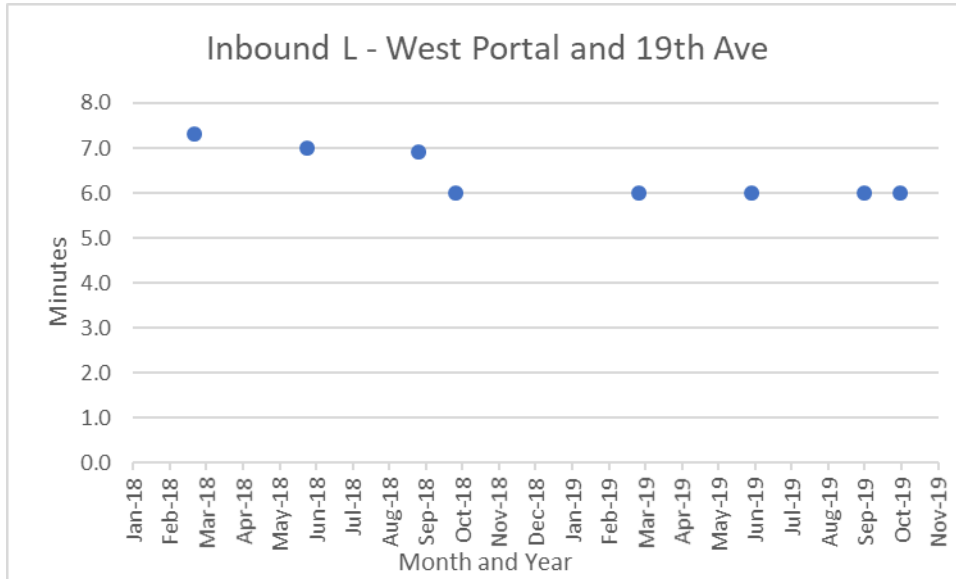


Figure 5 displays the inbound data from Table 3 on a graph. During this time period, the L Taraval experienced a decrease in travel times from March to October 2018, and the times remained unchanged through October 2019.

Figure 6. Median Travel Time Between West Portal Station and 19th Avenue (On Surface Streets) Traveling Outbound

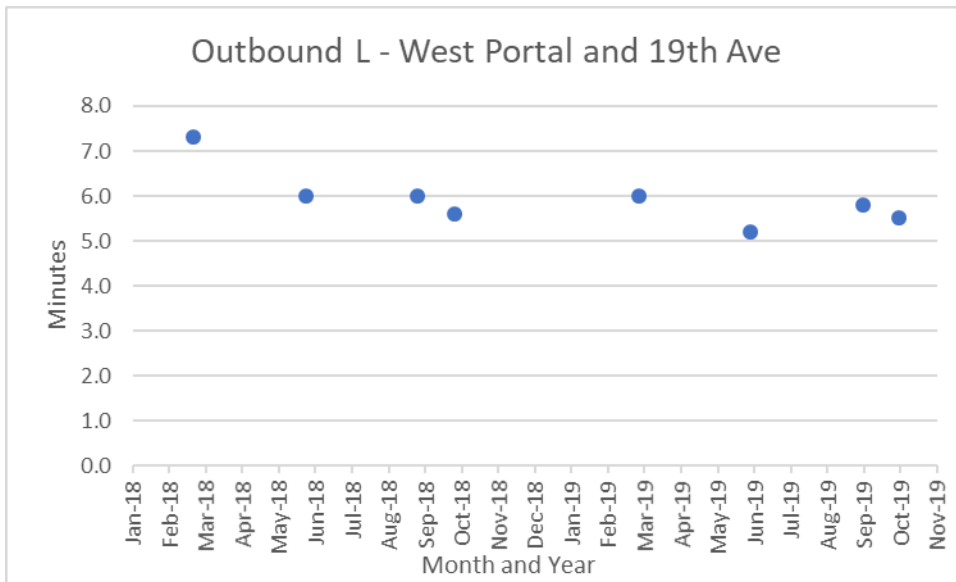


Figure 6 displays the outbound data from Table 3 on a graph. During this time period, the L Taraval fluctuated more in the outbound direction than in the inbound, but overall median travel time decreased as well. The lowest travel time occurred in June 2019 at 5.2 minutes, when school was not in session.

Transit Travel Time – Year-Over-Year

The following tables summarize year-over-year changes to transit travel time for comparable time periods in 2018 and 2019. These are color coded to reflect the degree of travel time change, based on metrics established in the Plan. Per the metric, a transit delay reduction of at least 5 percent over existing conditions without PCO support would indicate success. The tables are color coded as follows:

- Green – travel time decreased by 5 percent or more
- Yellow –travel time decreased by less than 5 percent
- Orange –travel time increased
- No color – travel times did not change

In other words, a positive percent change indicates that travel time increased, and a negative percent change indicates that travel time decreased.

This was measured for the following periods:

- March 2018 establishes a baseline without the Pilot or deployment PCOs⁷. In March 2019, PCOs were stationed at West Portal Station. School was in session both years.
- June 2018 excludes dates when the Twin Peaks Tunnel construction project was underway and establishes a baseline without the Pilot or PCO deployment. In June 2019, the Pilot was implemented and PCOs were stationed at West Portal Station. School was not in session in either year.
- September 2018 establishes a baseline without the Pilot or PCO deployment. In September 2019, PCOs were present and school was in session.
- October 2018 establishes a baseline without the Pilot or PCO deployment. October 2019 data is for days without the deployment of PCOs⁸ so that the Pilot can to be evaluated independently from PCO effects.

⁷ This refers to PCOs stationed at the West Portal Avenue/Ulloa Street intersection for the purpose of assisting Muni movements at the intersection. This is independent of PCOs performing routine parking and traffic enforcement along the corridor.

⁸ PCOs may have been present on the corridor as part of routine traffic and parking enforcement efforts but were not deployed at the intersection.

Table 4. Median Travel Time Between West Portal Station and Embarcadero Station (Within the Subway)

Time Period	Inbound KLM - West Portal and Embarcadero (Minutes)	Percent Change	Outbound KLM - West Portal and Embarcadero (Minutes)	Percent Change
Mar 2018 (no PCO, no pilot, school)	19.9	-4.5%	16.9	-7.7%
Mar 2019 (PCO, no pilot, school)	19.0		15.6	
Jun 2018 (no PCO, no pilot, no school)	18.0	7.2%	15.6	2.6%
Jun 2019 (PCO, pilot, no school)	19.3		16.0	
Sep 2018 (no PCO, no pilot, school)	17.7	7.3%	15.7	6.4%
Sep 2019 (PCO, pilot, school)	19.0		16.7	
Oct 2018 (no PCO, no pilot, school)	17.2	4.7%	16.3	2.5%
Oct 2019 (no PCO, pilot, school)	18.0		16.7	

Table 4 displays median travel time for the subway K, L, and M lines during the four distinct months in both 2018 and 2019 for year-over-year comparisons.

March – Travel time decreased in the inbound direction but by less than the 5 percent measure of success. In the outbound direction, travel time decreased 7.7 percent and surpassed the measure of success.

June – Median travel time increased in both directions and did not meet the measure of success.

September – Median travel time increased in both directions and did not meet the measure of success.

October – Median travel time increased in both directions and did not meet the measure of success.

Table 5. Median Travel Time Between West Portal Station and St Francis Circle (On Surface Streets)

Time Period	Inbound KM - West Portal and St Francis (Minutes)	Percent Change	Outbound KM - West Portal and St Francis (Minutes)	Percent Change
Mar 2018 (no PCO, no pilot, school)	5.4	-9.3%	4.7	-14.9%
Mar 2019 (PCO, no pilot, school)	4.9		4.0	
Jun 2018 (no PCO, no pilot, no school)	5.0	-4.0%	4.0	0.0%
Jun 2019 (PCO, pilot, no school)	4.8		4.0	
Sep 2018 (no PCO, no pilot, school)	5.0	-4.0%	4.0	0.0%
Sep 2019 (PCO, pilot, school)	4.8		4.0	
Oct 2018 (no PCO, no pilot, school)	5.0	-4.0%	4.0	0.0%
Oct 2019 (no PCO, pilot, school)	4.8		4.0	

Table 5 displays median travel time for the subway K, L, and M lines during the four distinct months in both 2018 and 2019 for year-over-year comparisons.

March – Both inbound and outbound median travel times decreased by more than 5 percent, indicating success per the metric established in the Plan.

June – Median travel time decreased in the inbound direction but by less than the 5 percent measure of success. The outbound travel time did not change.

September – Median travel time decreased in the inbound direction but by less than the 5 percent measure of success. The outbound travel time did not change.

October – Median travel time decreased in the inbound direction but by less than the 5 percent measure of success. The outbound travel time did not change.

Table 6. Median Travel Time Between West Portal Station and 19th Avenue (On Surface Streets)

Time Period	Inbound L - West Portal and 19th Ave (Minutes)	Percent Change	Outbound L - West Portal and 19th Ave (Minutes)	Percent Change
Mar 2018 (no PCO, no pilot, school)	7.3	-17.8%	7.3	-17.8%
Mar 2019 (PCO, no pilot, school)	6.0		6.0	
Jun 2018 (no PCO, no pilot, no school)	7.0	-14.3%	6.0	-13.3%
Jun 2019 (PCO, pilot, no school)	6.0		5.2	
Sep 2018 (no PCO, no pilot, school)	6.9	-13.0%	6.0	-3.3%
Sep 2019 (PCO, pilot, school)	6.0		5.8	
Oct 2018 (no PCO, no pilot, school)	6.0	0.0%	5.6	-1.8%
Oct 2019 (no PCO, pilot, school)	6.0		5.5	

Table 6 displays median travel time for the light rail L Taraval line during the four distinct months in both 2018 and 2019 for year-over-year comparisons.

March – Both inbound and outbound median travel times decreased by more than 5 percent, indicating success per the metric established in the Plan.

June – Both inbound and outbound median travel times decreased by more than 5 percent, indicating success per the metric established in the Plan.

September – In the inbound direction, the median travel time decreased by over 5 percent, indicating success. The outbound median travel time decreased by 3.3 percent, short of the 5 percent measure of success.

October – The inbound travel time was unchanged. The outbound travel time decreased but did not meet the 5 percent measure of success.

Transit Vehicle Queuing

Transit vehicle queues were measured on both West Portal Avenue and Ulloa Street. The number of trains present in the following blocks was measured every 90 seconds.

- West Portal Avenue, between 14th Avenue and Ulloa Street
- Ulloa Street, between Forest Side Avenue and West Portal Avenue

Table 7. Transit Queuing Data

West Portal - Between 14th Avenue and Ulloa Street			
Number of trains present	Before Pilot With PCO	With Pilot With PCO	With Pilot Without PCO
0	29.4%	44.2%	38.9%
1	47.5%	46.3%	52.8%
2	15.8%	7.5%	8.3%
3	5.9%	2.1%	0.0%
4	1.4%	0.0%	0.0%

Ulloa Street - Between Forest Slide Avenue and West Portal Avenue			
Number of trains present	Before Pilot With PCO	With Pilot With PCO	With Pilot Without PCO
0	77.4%	76.3%	60.8%
1	22.1%	23.8%	37.9%
2	0.4%	0.0%	1.3%
3	0.0%	0.0%	0.0%
4	0.0%	0.0%	0.0%

Table 7 displays the queuing data: 1) before the pilot (with PCOs present), 2) with the pilot and PCOs, and 3) with the pilot but without PCOs. On West Portal Avenue, the frequency at which two or more trains were queued decreased, both with and without PCOs.

Parking Occupancy

Parking occupancy was measured largely by using parking meter payment data. Occupancy rate is calculated by dividing the percentage of purchased time at a meter by the total time available, then applying [Sensor Independent Rate Adjustments](#)⁹ to account for non-payment (such as blue placard usage or underpayment). The purpose of including this data is to measure if the Pilot’s turn restrictions affect parking occupancy in the commercial corridor near West Portal Station.

Parking meters begin charging at 9:00 am on weekdays; the data is broken down into Pilot hours (9:00 am to 10:00 am) and non-Pilot hours (10:00 am to 6:00 pm). Data was also categorized by street blocks – even and odd street numbers. June and September 2018 and 2019 data were collected to control for school versus non-school scenarios and to provide a year-over-year comparison.

⁹ https://www.sfmta.com/sites/default/files/reports-and-documents/2018/01/sira-methodology-and-implementation-plan_2014_05-14.pdf

The following tables are color coded to reflect the metric of success as established in the Plan. Per the metric, success occurs when parking occupancy does not decrease by more than 5 percent. The tables are color coded as follows:

- Green – parking occupancy increased during Pilot hours
- Yellow – parking occupancy decreased by 5 percent or less during Pilot hours
- Orange – parking occupancy decreased by more than 5 percent during Pilot hours
- No color – parking occupancy did not change during Pilot hours

Table 8. Average Parking Occupancy Rates for West Portal Avenue Overall

Time Bands	West Portal Overall	West Portal Overall	Percent Change
	Jun-18	Jun-19	
9:00-10:00	64%	70%	10%
10:00-2:00	75%	76%	2%
2:00-6:00	74%	76%	3%
	Sep-18	Sep-19	
9:00-10:00	65%	68%	4%
10:00-2:00	77%	75%	-3%
2:00-6:00	75%	74%	-2%

Table 8 captures overall parking occupancy rates for the West Portal commercial area. During Pilot hours in both June and September 2019, parking occupancy increased from the year prior.

Table 9. Average Parking Occupancy for 1-99 West Portal Avenue

Time Bands	West Portal Ave (1-99)	West Portal Ave (1-99)	Percent Change
	Jun-18	Jun-19	
9:00-10:00	61%	70%	15%
10:00-2:00	70%	73%	5%
2:00-6:00	72%	74%	3%
	Sep-18	Sep-19	
9:00-10:00	62%	64%	3%
10:00-2:00	75%	70%	-7%
2:00-6:00	75%	70%	-6%

Table 9 shows the parking occupancy rate for the 1-99 odd-numbered block on West Portal Avenue. During Pilot hours in both June and September 2019, parking occupancy increased from the year prior.

Table 10. Average Parking Occupancy for 2-98 West Portal Avenue

Time Bands	West Portal Ave (2-98)	West Portal Ave (2-98)	Percent Change
		Jun-18	Jun-19
9:00-10:00	56%	70%	26%
10:00-2:00	63%	76%	21%
2:00-6:00	60%	77%	29%
		Sep-18	Sep-19
9:00-10:00	67%	64%	-4%
10:00-2:00	77%	73%	-5%
2:00-6:00	79%	75%	-6%

Table 10 shows the parking occupancy rate for the 2-98 even-numbered block on West Portal Avenue. During Pilot hours in June 2019, parking occupancy increased by 26 percent. During Pilot hours in September 2019, parking occupancy decreased but by less than 5 percent.

Table 11. Average Parking Occupancy for 100-298 West Portal Avenue

Time Bands	West Portal Ave (100-298)	West Portal Ave (100-298)	Percent Change
		Jun-18	Jun-19
9:00-10:00	72%	75%	4%
10:00-2:00	83%	80%	-4%
2:00-6:00	82%	79%	-3%
		Sep-18	Sep-19
9:00-10:00	65%	76%	17%
10:00-2:00	73%	81%	11%
2:00-6:00	70%	79%	13%

Table 11 shows the parking occupancy rate for the 100-298 even-numbered block on West Portal Avenue. During Pilot hours in both June and September 2019, parking occupancy increased from the year prior.

Table 12. Average Parking Occupancy for 101-299 West Portal Avenue

Time Bands	West Portal Ave (101-299)	West Portal Ave (101-299)	Percent Change
	Jun-18	Jun-19	
9:00-10:00	67%	66%	-2%
10:00-2:00	84%	76%	-10%
2:00-6:00	82%	73%	-11%
	Sep-18	Sep-19	
9:00-10:00	67%	68%	1%
10:00-2:00	81%	74%	-9%
2:00-6:00	77%	72%	-6%

Table 12 shows the parking occupancy rate for the 101-299 odd-numbered block on West Portal Avenue. During Pilot hours in June 2019, parking occupancy decreased by 2 percent, less than the 5 percent measure of success as defined in the Plan. During Pilot hours in September 2019, parking occupancy increased.

Collisions

Collision records were reviewed during the period of June-December 2019. During that time there were collisions involving transit vehicles, but upon reviewing the collision reports, none of the collisions appear to be related to the Pilot. During that same period, there were no other collisions reported to the San Francisco Police Department (essentially collisions not involving transit vehicles).

Sales Tax Data

Aggregated sales tax data was intended to be reviewed to measure if there were changes in total sales tax collected along West Portal Avenue compared to city-wide. However, **sales tax information from 2019 was not available at the time of this report, which is beyond the control of the SFMTA.**

Turning Movement Counts

Traffic volume turning movement counts were obtained at the following locations:

- West Portal Avenue and Ulloa Street
- Lenox Way and Ulloa Street
- Claremont Boulevard and Ulloa Street
- West Portal Avenue and Vicente Street
- Vicente Street, Wawona Street and Madrone Avenue

Data was collected during the morning peak hour, defined as the peak consecutive 60-minute period that occurs between 7:00 am and 9:00 am on the following dates:

- Before Pilot – May 22 and May 23, 2019
- With Pilot and PCOs – September 24, 2019
- With Pilot, without PCOs – October 23, 2019

This data is attached. It should be noted that while traffic volumes did decrease where left turn movements were prohibited, some drivers still performed the prohibited maneuver.

Qualitative Information

Throughout the Pilot period, SFMTA staff consulted various stakeholders on the impacts and effects of the Pilot, including Muni riders, West Portal merchants, PCOs, and Muni operators. This effort is continuing through the evaluation process.



Attachment

Traffic Volume Counts – Before Pilot and With PCO

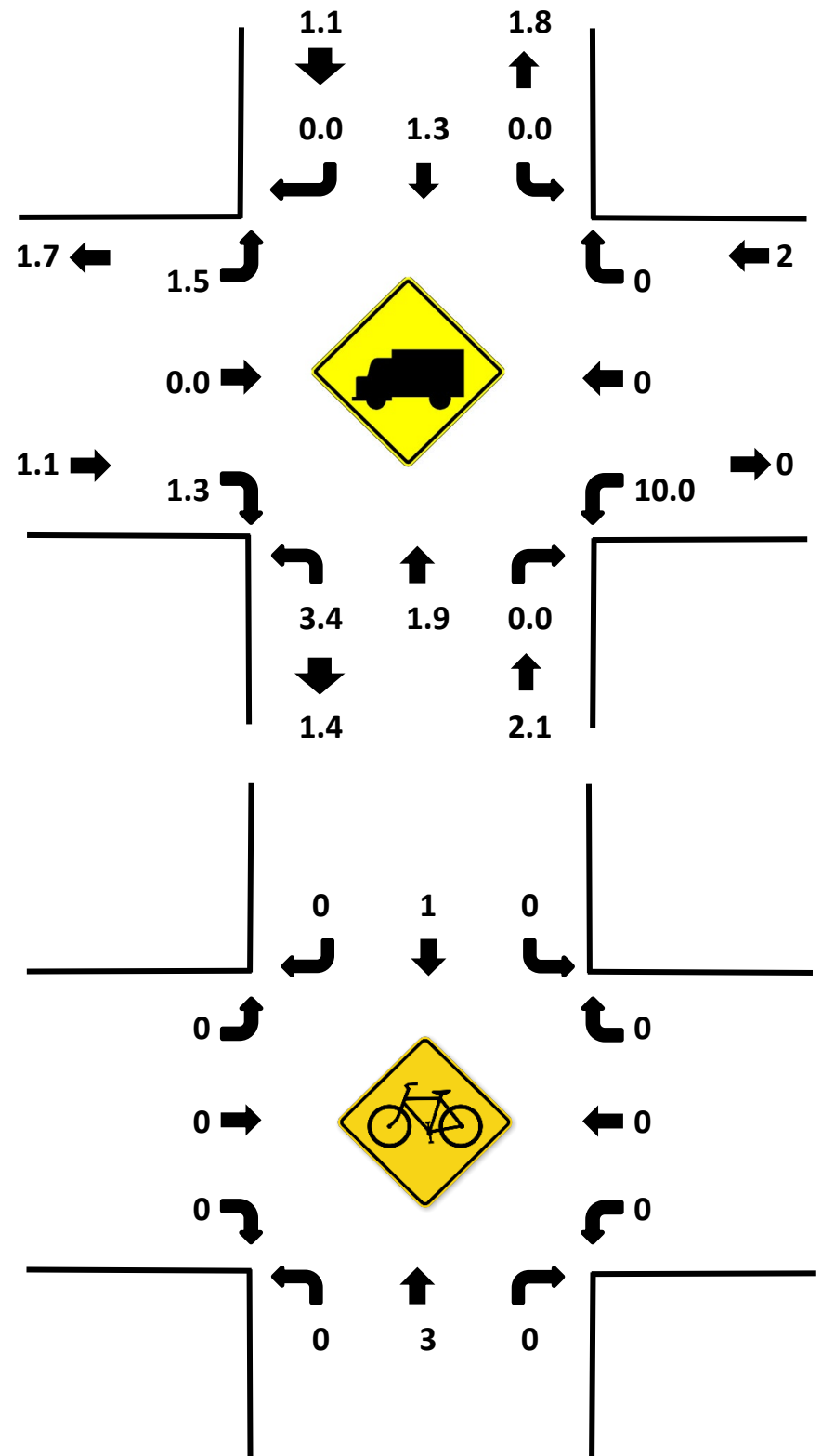
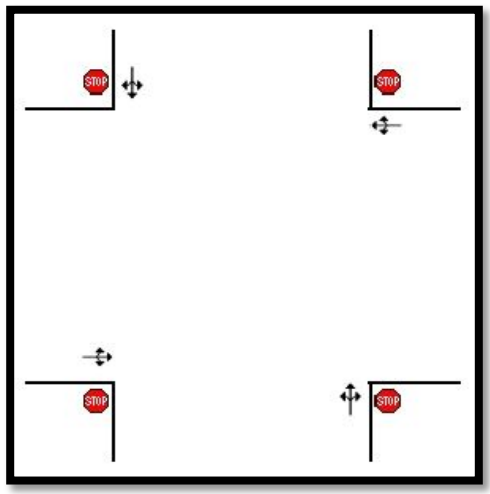
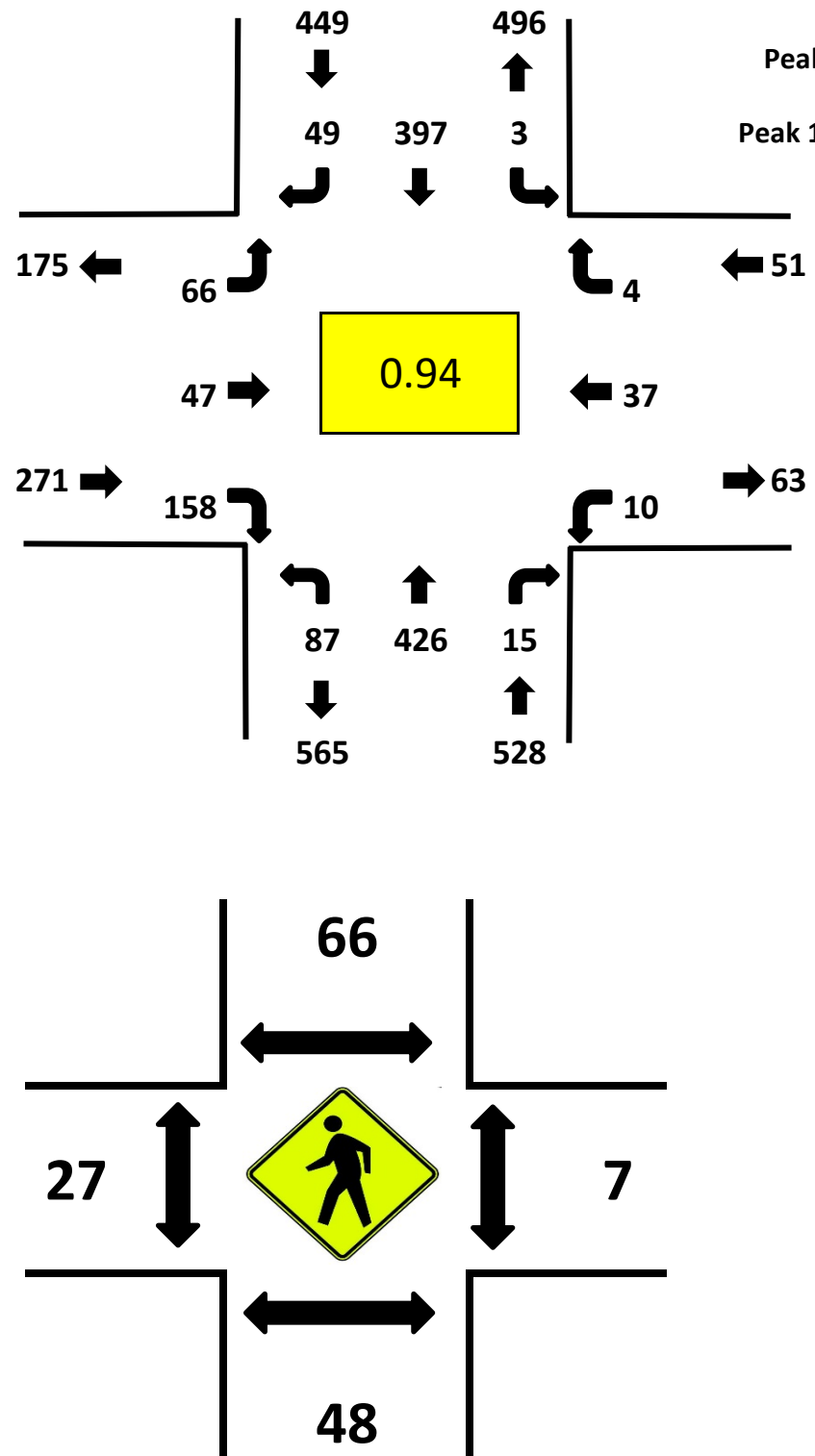
LOCATION: Claremont Blvd & Ulloa St



QC JOB #: 14955173

CITY/STATE: San Francisco, CA

DATE: 5/22/2019



Count Period	Claremont Blvd Northbound				Claremont Blvd Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	2	29	0	0	1	17	4	0	3	0	1	0	1	2	1	0	61	
7:05 AM	4	30	0	0	0	27	4	0	3	0	4	0	0	1	1	0	74	
7:10 AM	5	30	1	0	0	19	3	0	3	1	7	0	0	2	0	0	71	
7:15 AM	3	36	1	0	0	17	3	0	2	0	11	0	0	1	0	0	74	
7:20 AM	1	30	3	0	0	13	3	0	9	1	8	0	1	1	0	0	70	
7:25 AM	1	33	1	0	1	21	3	0	3	4	7	1	1	1	0	0	77	
7:30 AM	7	36	4	0	0	35	3	0	2	4	13	0	0	1	0	0	105	
7:35 AM	5	36	0	0	0	34	5	0	6	4	8	0	1	3	0	0	102	
7:40 AM	8	35	3	0	1	28	2	2	4	6	19	0	1	1	0	0	110	
7:45 AM	8	32	1	0	0	43	5	0	5	6	9	0	0	4	0	0	113	
7:50 AM	7	31	6	0	0	38	5	0	5	2	14	0	0	2	0	0	110	
7:55 AM	8	38	1	0	0	38	4	0	4	6	13	0	2	8	0	0	122	1089
8:00 AM	9	36	1	0	0	31	5	0	6	5	12	0	0	3	0	0	108	1136
8:05 AM	8	38	2	0	0	27	3	0	2	2	11	0	1	3	0	0	97	1159
8:10 AM	4	28	0	0	0	27	2	0	6	8	17	1	0	0	0	0	93	1181
8:15 AM	12	38	0	0	0	39	4	0	6	1	10	1	1	3	2	0	117	1224
8:20 AM	5	40	0	0	0	24	5	0	4	4	12	0	2	3	0	0	99	1253
8:25 AM	5	37	0	0	0	29	5	0	6	3	16	0	1	5	0	0	107	1283
8:30 AM	8	37	1	0	0	39	4	0	10	0	17	0	1	2	2	0	121	1299
8:35 AM	4	32	0	0	0	29	8	0	11	0	9	0	2	6	0	0	101	1298
8:40 AM	8	32	0	0	1	32	4	0	6	4	12	0	2	0	0	0	101	1289
8:45 AM	9	29	1	1	0	36	8	0	2	5	8	0	7	3	0	0	109	1285
8:50 AM	5	29	2	0	1	39	13	0	6	0	6	0	4	0	0	0	105	1280
8:55 AM	2	20	0	0	0	22	7	0	3	3	13	0	1	2	1	0	74	1232
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	92	404	32	0	0	476	56	0	56	56	144	0	8	56	0	0	1380	
Heavies	4	0	0		0	0	0		0	0	0		0	0	0		4	
Peds		44				56				28				0			128	
2HR Bikes	0	8	0		0	4	0		0	1	0		0	0	13		26	

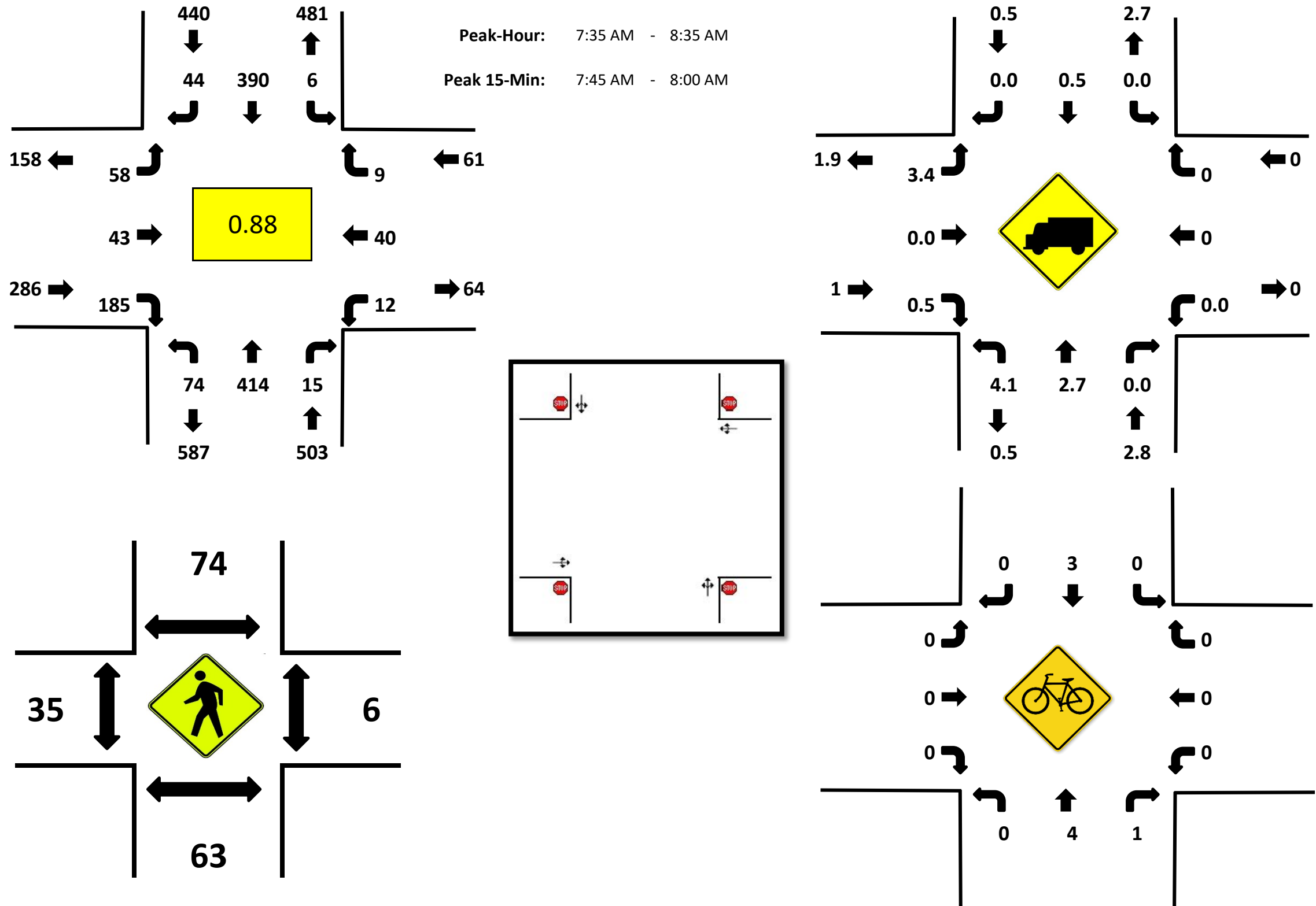
LOCATION: Claremont Blvd & Ulloa St

QC JOB #: 14955174

CITY/STATE: San Francisco, CA



DATE: 5/23/2019



Count Period	Claremont Blvd Northbound				Claremont Blvd Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U			
7:00 AM	1	25	0	0	1	22	0	0	2	0	8	0	0	1	1	0	0	61	
7:05 AM	6	34	0	0	0	16	3	0	2	3	9	0	0	1	0	0	0	74	
7:10 AM	3	28	1	0	0	26	4	0	2	1	4	0	0	1	0	0	0	70	
7:15 AM	1	33	2	0	0	17	3	0	1	0	8	0	0	0	0	0	0	65	
7:20 AM	6	32	3	0	1	18	3	0	6	1	4	0	1	1	0	0	0	76	
7:25 AM	2	37	2	0	0	18	3	0	3	3	8	0	1	2	1	0	0	80	
7:30 AM	2	35	2	0	1	22	2	0	7	7	11	0	0	3	1	0	0	93	
7:35 AM	6	33	2	0	0	39	3	0	2	2	12	0	1	4	0	0	0	104	
7:40 AM	10	28	1	0	0	26	3	0	8	6	21	0	0	5	1	0	0	109	
7:45 AM	7	43	2	0	1	36	2	0	4	5	16	0	0	1	2	0	0	119	
7:50 AM	7	31	2	0	0	37	4	0	5	5	22	0	1	4	0	0	0	118	
7:55 AM	8	33	3	0	3	44	3	0	7	4	17	0	1	6	0	0	0	129	1098
8:00 AM	3	31	3	0	0	32	2	0	3	5	15	0	1	2	1	0	0	98	1135
8:05 AM	6	40	1	0	1	26	6	0	2	6	10	0	0	5	0	0	0	103	1164
8:10 AM	2	33	0	0	0	34	5	0	5	3	15	0	2	1	1	0	0	101	1195
8:15 AM	13	29	0	0	1	29	5	0	3	3	17	0	2	1	1	0	0	104	1234
8:20 AM	4	41	0	0	0	27	1	0	5	1	18	0	1	0	0	0	0	98	1256
8:25 AM	2	37	1	0	0	30	4	0	5	0	12	0	1	6	1	0	0	99	1275
8:30 AM	6	35	0	0	0	30	6	0	9	3	10	0	2	5	2	0	0	108	1290
8:35 AM	1	38	2	0	0	21	4	0	8	1	7	0	2	1	1	0	0	86	1272
8:40 AM	6	29	0	0	0	28	3	0	2	2	16	0	3	2	0	0	0	91	1254
8:45 AM	9	20	3	0	2	42	10	0	2	3	7	0	2	1	0	0	0	101	1236
8:50 AM	2	21	2	0	0	24	6	0	5	3	18	0	2	1	1	0	0	85	1203
8:55 AM	5	27	0	0	2	24	3	0	5	3	10	0	2	0	0	0	0	81	1155
Peak 15-Min Flowrates	NB				SB				EB				WB				Total		
All Vehicles	88	428	28	0	16	468	36	0	64	56	220	0	8	44	8	0		0	1464
Heavies	0	16	0		0	0	0		4	0	0		0	0	0			20	
Peds		48				64				32				4				148	
2HR Bikes	0	10	1		0	7	1		1	0	1		0	0	21			42	

LOCATION: Lenox Way & Ulloa St

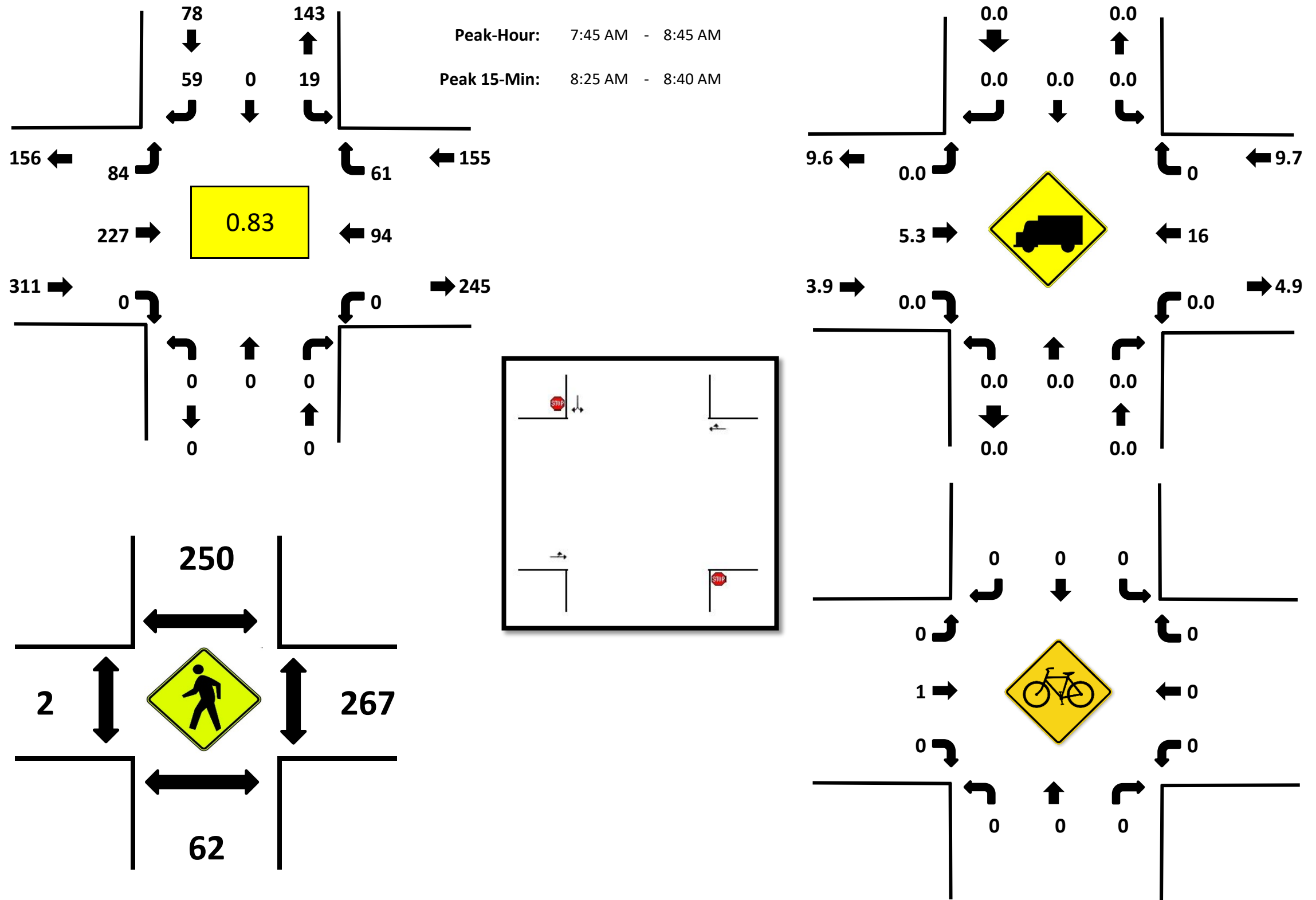


Quality Counts
DATA THAT DRIVES COMMUNITIES

QC JOB #: 14955171

CITY/STATE: San Francisco, CA

DATE: 5/22/2019



Count Period	Lenox Way Northbound				Lenox Way Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	0	0	0	0	0	3	0	0	6	0	0	0	3	0	0	12	
7:05 AM	0	0	0	0	0	0	3	0	2	6	0	0	0	3	1	0	15	
7:10 AM	0	0	0	0	0	0	4	0	1	7	0	1	0	10	0	0	23	
7:15 AM	0	0	0	0	0	0	2	0	4	7	0	0	0	5	1	0	19	
7:20 AM	0	0	0	0	1	0	5	0	3	8	0	0	0	1	0	0	18	
7:25 AM	0	0	0	0	0	0	3	0	2	12	0	0	0	1	0	0	18	
7:30 AM	0	0	0	0	2	0	3	0	4	18	0	0	0	9	1	0	37	
7:35 AM	0	0	0	0	3	0	4	0	2	16	0	0	0	11	0	0	36	
7:40 AM	0	0	0	0	1	0	5	0	2	18	0	0	0	8	1	0	35	
7:45 AM	0	0	0	0	3	0	9	0	7	19	0	1	0	8	0	0	47	
7:50 AM	0	0	0	0	0	0	6	0	4	26	0	0	0	5	0	0	41	
7:55 AM	0	0	0	0	0	0	3	0	3	18	0	1	0	16	1	0	42	343
8:00 AM	0	0	0	0	3	0	4	0	2	15	0	0	0	10	1	0	35	366
8:05 AM	0	0	0	0	0	0	4	1	2	28	0	0	0	7	1	0	43	394
8:10 AM	0	0	0	0	0	0	4	0	7	23	0	0	0	8	3	0	45	416
8:15 AM	0	0	0	0	2	0	6	0	8	14	0	1	0	7	3	0	41	438
8:20 AM	0	0	0	0	0	0	2	0	6	16	0	0	0	6	8	0	38	458
8:25 AM	0	0	0	0	1	0	4	0	14	18	0	0	0	6	10	0	53	493
8:30 AM	0	0	0	0	2	0	4	0	12	19	0	0	0	8	13	0	58	514
8:35 AM	0	0	0	0	2	0	6	0	11	16	0	0	0	4	13	0	52	530
8:40 AM	0	0	0	0	5	0	7	0	5	15	0	0	0	9	8	0	49	544
8:45 AM	0	0	0	0	2	0	6	0	2	17	0	3	0	9	0	0	39	536
8:50 AM	0	0	0	0	2	0	2	0	3	13	0	0	0	8	0	0	28	523
8:55 AM	0	0	0	0	3	0	4	0	4	8	0	0	0	6	3	0	28	509
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	0	0	0	0	20	0	56	0	148	212	0	0	0	72	144	0	652	
Heavies	0	0	0	0	0	0	0	0	0	8	0	0	0	12	0	0	20	
Peds		68				288				4				204			564	
2HR Bikes	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	4	

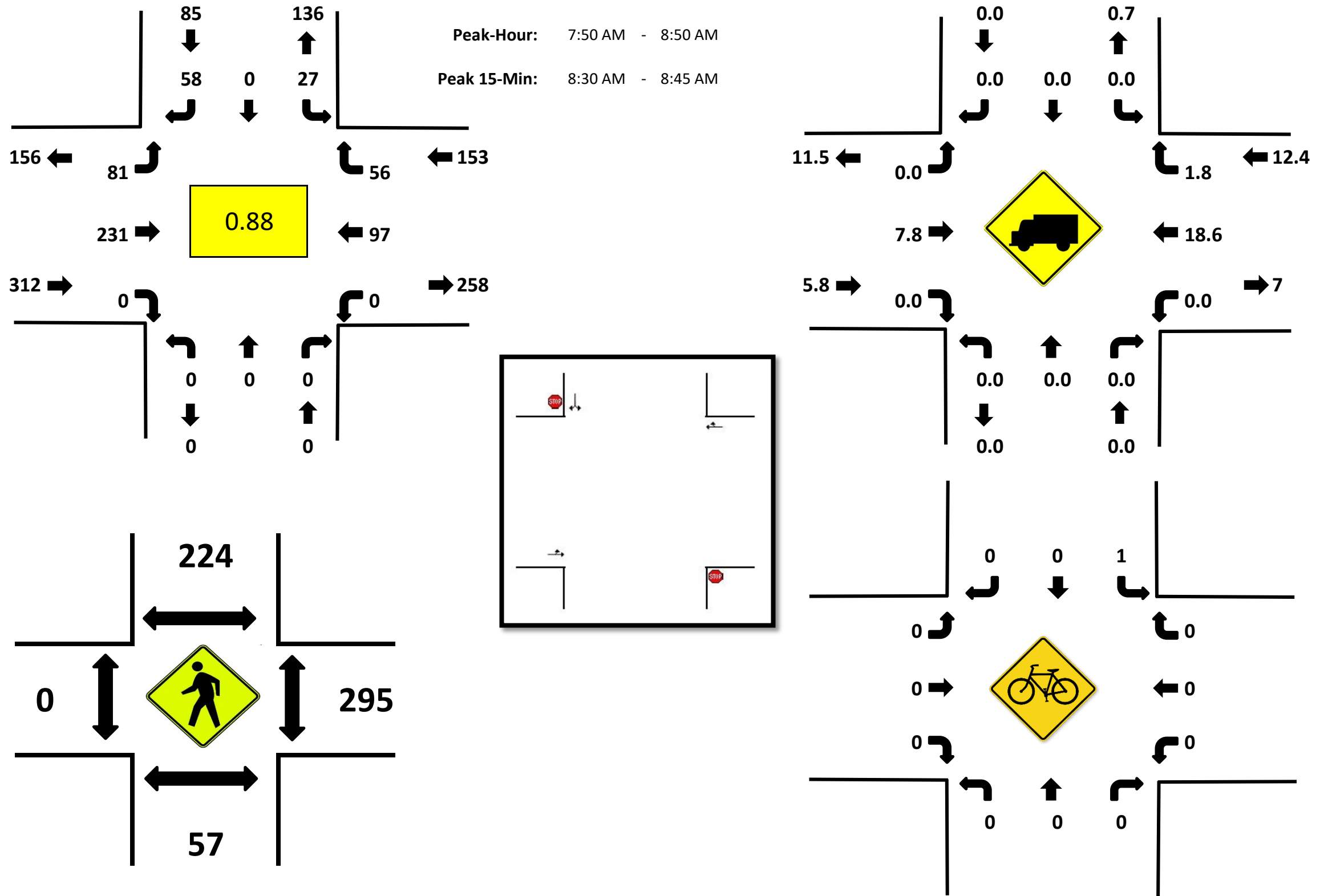
LOCATION: Lenox Way & Ulloa St



QC JOB #: 14955172

CITY/STATE: San Francisco, CA

DATE: 5/23/2019



Count Period	Lenox Way Northbound				Lenox Way Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	0	0	0	0	0	3	0	1	8	0	0	0	2	0	0	14	
7:05 AM	0	0	0	0	1	0	1	0	0	12	0	1	0	8	1	0	24	
7:10 AM	0	0	0	0	1	0	2	0	1	8	0	0	0	4	0	0	16	
7:15 AM	0	0	0	0	1	0	2	0	2	9	0	1	0	0	0	0	15	
7:20 AM	0	0	0	0	2	0	2	0	3	9	0	0	0	6	0	0	22	
7:25 AM	0	0	0	0	1	0	1	0	1	14	0	0	0	5	0	0	22	
7:30 AM	0	0	0	0	3	0	4	0	3	13	0	0	0	4	0	0	27	
7:35 AM	0	0	0	0	1	0	4	0	5	16	0	0	0	7	2	0	35	
7:40 AM	0	0	0	0	5	0	6	0	4	19	0	0	0	8	2	0	44	
7:45 AM	0	0	0	0	4	0	4	0	2	19	0	0	0	4	0	0	33	
7:50 AM	0	0	0	0	0	0	6	0	2	21	0	0	0	10	2	0	41	
7:55 AM	0	0	0	0	2	0	11	0	6	23	0	0	0	11	1	0	54	347
8:00 AM	0	0	0	0	1	0	1	0	2	20	0	0	0	6	1	0	31	364
8:05 AM	0	0	0	0	3	0	5	0	5	20	0	0	0	9	1	0	43	383
8:10 AM	0	0	0	0	3	0	5	0	7	19	0	0	0	5	4	0	43	410
8:15 AM	0	0	0	0	2	0	7	0	4	29	0	1	0	6	3	0	52	447
8:20 AM	0	0	0	0	3	0	4	0	5	17	0	0	0	6	6	0	41	466
8:25 AM	0	0	0	0	2	0	3	0	10	18	0	0	0	6	9	0	48	492
8:30 AM	0	0	0	0	2	0	5	0	12	16	0	0	0	9	16	0	60	525
8:35 AM	0	0	0	0	2	0	5	0	16	11	0	0	0	7	7	0	48	538
8:40 AM	0	0	0	0	3	0	3	0	9	20	0	0	0	13	1	0	49	543
8:45 AM	0	0	0	0	4	0	3	0	2	17	0	0	0	9	5	0	40	550
8:50 AM	0	0	0	0	0	0	4	0	4	14	0	0	0	7	1	0	30	539
8:55 AM	0	0	0	0	0	0	4	0	0	6	0	0	0	10	2	0	22	507
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	0	0	0	0	28	0	52	0	148	188	0	0	0	116	96	0	628	
Heavies	0	0	0	0	0	0	0	0	0	16	0	0	0	32	0	0	48	
Peds		56				252				0				196			504	
2HR Bikes	0	0	0	0	1	0	0	0	0	1	0	0	0	0	2	0	4	

LOCATION: W Portal Ave & Ulloa St

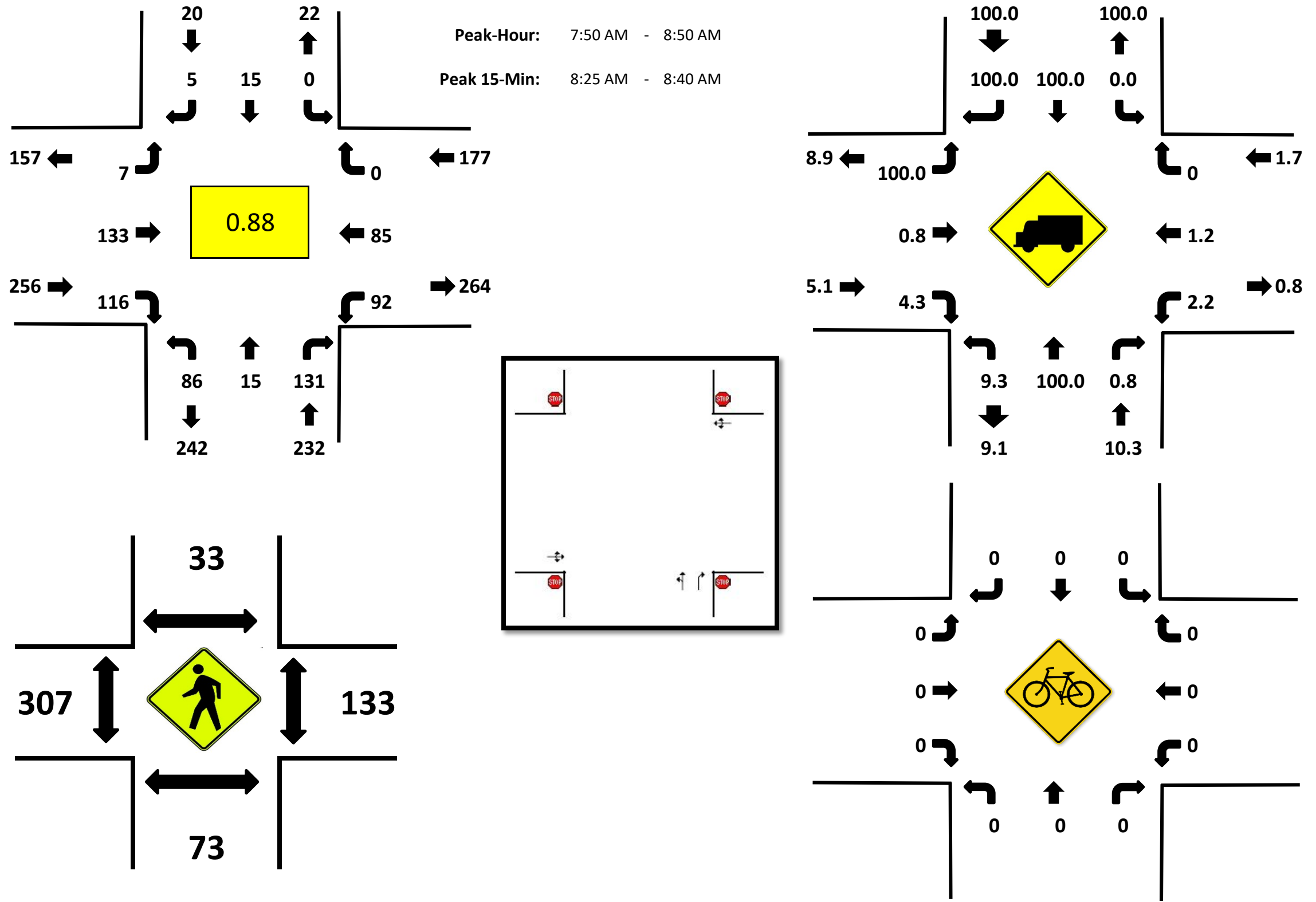


Quality Counts
DATA THAT DRIVES COMMUNITIES

QC JOB #: 14955169

CITY/STATE: San Francisco, CA

DATE: 5/22/2019



Count Period	W Portal Ave Northbound				W Portal Ave Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	1	3	2	1	0	1	1	0	0	3	3	0	6	1	0	0	22	
7:05 AM	2	1	2	2	0	0	0	0	1	4	1	0	7	2	0	0	22	
7:10 AM	3	2	6	2	0	0	0	0	0	5	2	0	4	6	0	0	30	
7:15 AM	3	1	6	2	0	3	1	0	0	3	5	0	5	3	0	0	32	
7:20 AM	0	1	10	0	0	1	1	0	1	5	5	0	4	1	0	0	29	
7:25 AM	1	0	7	1	0	2	0	0	1	6	4	0	4	0	0	0	26	
7:30 AM	6	2	11	1	0	1	0	0	1	8	11	0	5	4	0	0	50	
7:35 AM	2	1	11	3	0	0	1	0	0	9	11	0	6	8	0	0	52	
7:40 AM	4	2	9	0	0	1	1	0	0	18	3	0	6	4	0	0	48	
7:45 AM	1	3	10	2	0	1	1	0	1	8	9	0	5	6	0	0	47	
7:50 AM	2	1	7	0	0	1	0	0	1	19	9	0	9	4	0	0	53	
7:55 AM	5	3	7	2	0	2	0	0	0	12	6	0	7	12	0	0	56	467
8:00 AM	6	1	9	0	0	0	0	0	1	13	7	0	11	5	0	0	53	498
8:05 AM	3	2	10	1	0	1	0	0	1	10	19	0	5	5	0	0	57	533
8:10 AM	3	1	15	1	0	2	0	0	1	13	10	0	3	8	0	0	57	560
8:15 AM	4	2	8	1	0	2	1	0	0	11	6	0	8	5	0	0	48	576
8:20 AM	8	2	10	1	0	1	0	0	0	9	6	0	14	6	0	0	57	604
8:25 AM	5	1	17	2	0	0	1	0	1	9	12	0	4	10	0	0	62	640
8:30 AM	11	1	18	1	0	1	1	0	1	9	13	0	7	8	0	0	71	661
8:35 AM	10	0	12	3	0	4	0	0	0	10	5	0	9	8	0	0	61	670
8:40 AM	9	0	10	2	0	1	1	0	1	12	12	0	5	7	0	0	60	682
8:45 AM	1	1	8	5	0	0	1	0	0	6	11	0	10	7	0	0	50	685
8:50 AM	3	1	8	0	0	3	0	0	1	7	11	0	12	5	0	0	51	683
8:55 AM	4	2	5	2	0	1	0	0	0	7	10	0	9	5	0	0	45	672
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
All Vehicles	104	8	188	24	0	20	8	0	8	112	120	0	80	104	0	0		776
Heavies	4	8	4		0	20	8		8	0	8		0	0	0		60	
Peds		68				4				204				132			408	
2HR Bikes	0	0	0		0	0	0		0	1	0		0	0	1		2	

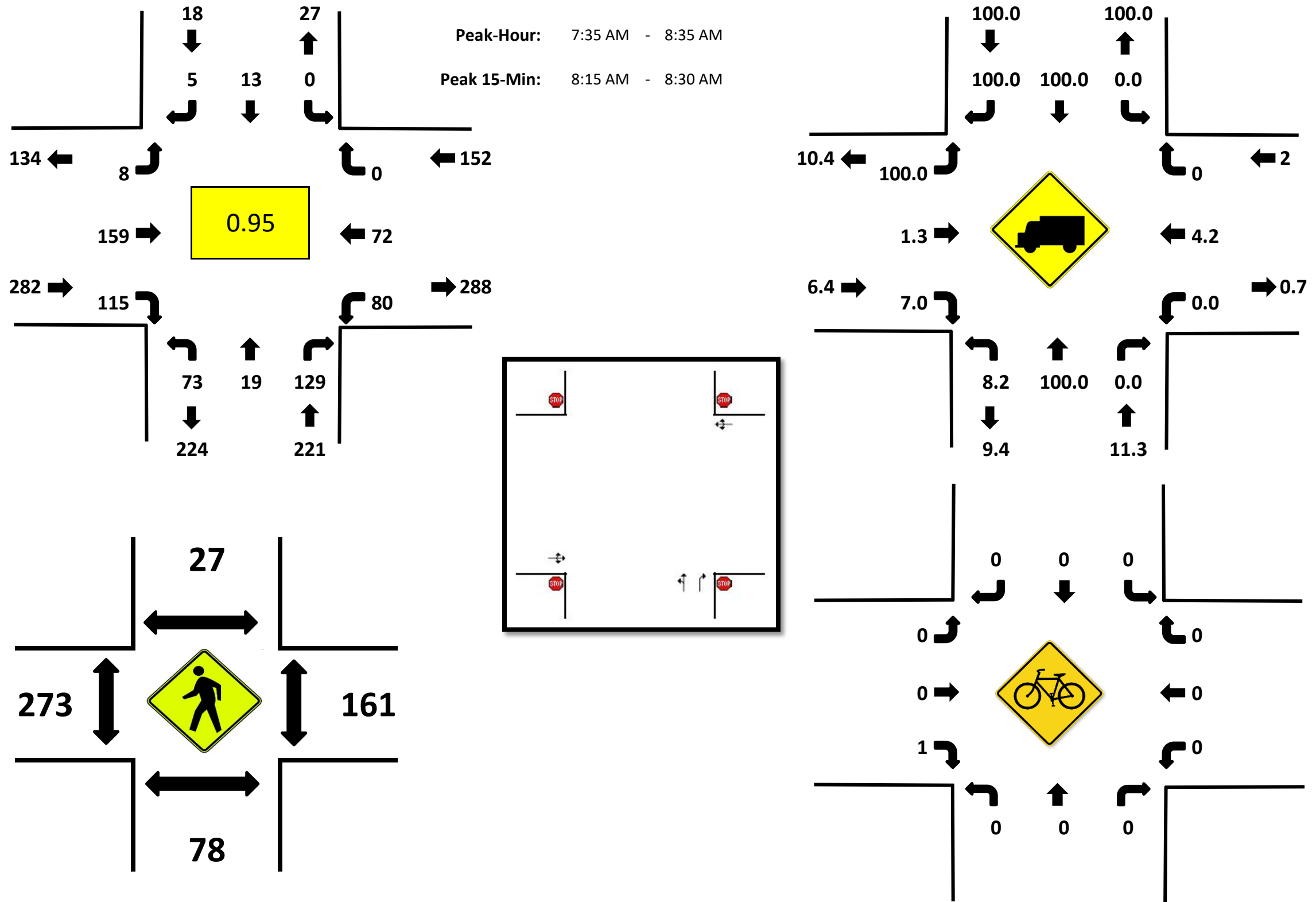
LOCATION: W Portal Ave & Ulloa St



QC JOB #: 14955170

CITY/STATE: San Francisco, CA

DATE: 5/23/2019



Count Period	W Portal Ave Northbound				W Portal Ave Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	1	2	9	2	0	1	1	0	0	5	2	0	1	0	0	0	24	
7:05 AM	5	1	4	3	0	0	0	0	1	6	7	0	6	3	0	0	36	
7:10 AM	1	1	5	1	0	2	1	0	0	3	6	0	3	3	0	0	26	
7:15 AM	0	1	6	2	0	1	0	0	1	3	6	0	6	0	0	0	26	
7:20 AM	2	2	9	0	0	0	1	0	0	4	6	0	8	3	0	0	35	
7:25 AM	2	1	4	0	0	1	0	0	1	7	7	0	3	3	0	0	29	
7:30 AM	2	1	19	2	0	1	1	0	0	5	10	0	5	2	0	0	48	
7:35 AM	3	2	10	0	0	1	0	0	1	11	7	0	7	5	0	0	47	
7:40 AM	4	2	13	1	0	1	1	0	0	18	6	0	10	6	0	0	62	
7:45 AM	0	1	10	1	0	1	0	0	1	15	11	0	6	4	0	0	50	
7:50 AM	5	2	18	0	0	0	1	0	1	13	7	0	9	6	0	0	62	
7:55 AM	3	2	10	0	0	2	0	0	0	18	10	0	6	10	0	0	61	506
8:00 AM	4	3	7	2	0	0	0	0	1	14	8	0	4	3	0	0	46	528
8:05 AM	1	1	7	2	0	2	0	0	1	11	5	0	7	8	0	0	45	537
8:10 AM	6	1	12	1	0	3	0	0	0	15	12	0	7	4	0	0	61	572
8:15 AM	2	1	8	2	0	0	1	0	1	20	14	0	7	5	0	0	61	607
8:20 AM	5	1	9	3	0	0	0	0	1	10	9	0	6	7	0	0	51	623
8:25 AM	9	3	12	3	0	3	0	0	0	9	15	0	6	6	0	0	66	660
8:30 AM	15	0	13	1	0	0	2	0	1	5	11	0	5	8	0	0	61	673
8:35 AM	9	1	12	0	0	3	1	0	0	8	4	0	4	4	0	0	46	672
8:40 AM	7	0	6	3	0	2	1	0	1	13	12	0	3	6	0	0	54	664
8:45 AM	2	2	4	0	0	1	1	0	1	5	9	0	6	11	0	0	42	656
8:50 AM	3	1	14	0	0	3	0	0	1	12	8	0	5	5	0	0	52	646
8:55 AM	6	1	8	1	0	2	1	0	0	5	3	0	6	6	0	1	40	625
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	64	20	116	32	0	12	4	0	8	156	152	0	76	72	0	0	712	
Heavies	0	20	0		0	12	4		8	4	12		0	4	0		64	
Peds		104				76				360				152			692	
2HR Bikes	0	0	1		0	0	0		0	1	1		1	0	4		8	

LOCATION: W Portal Ave & Vicente St

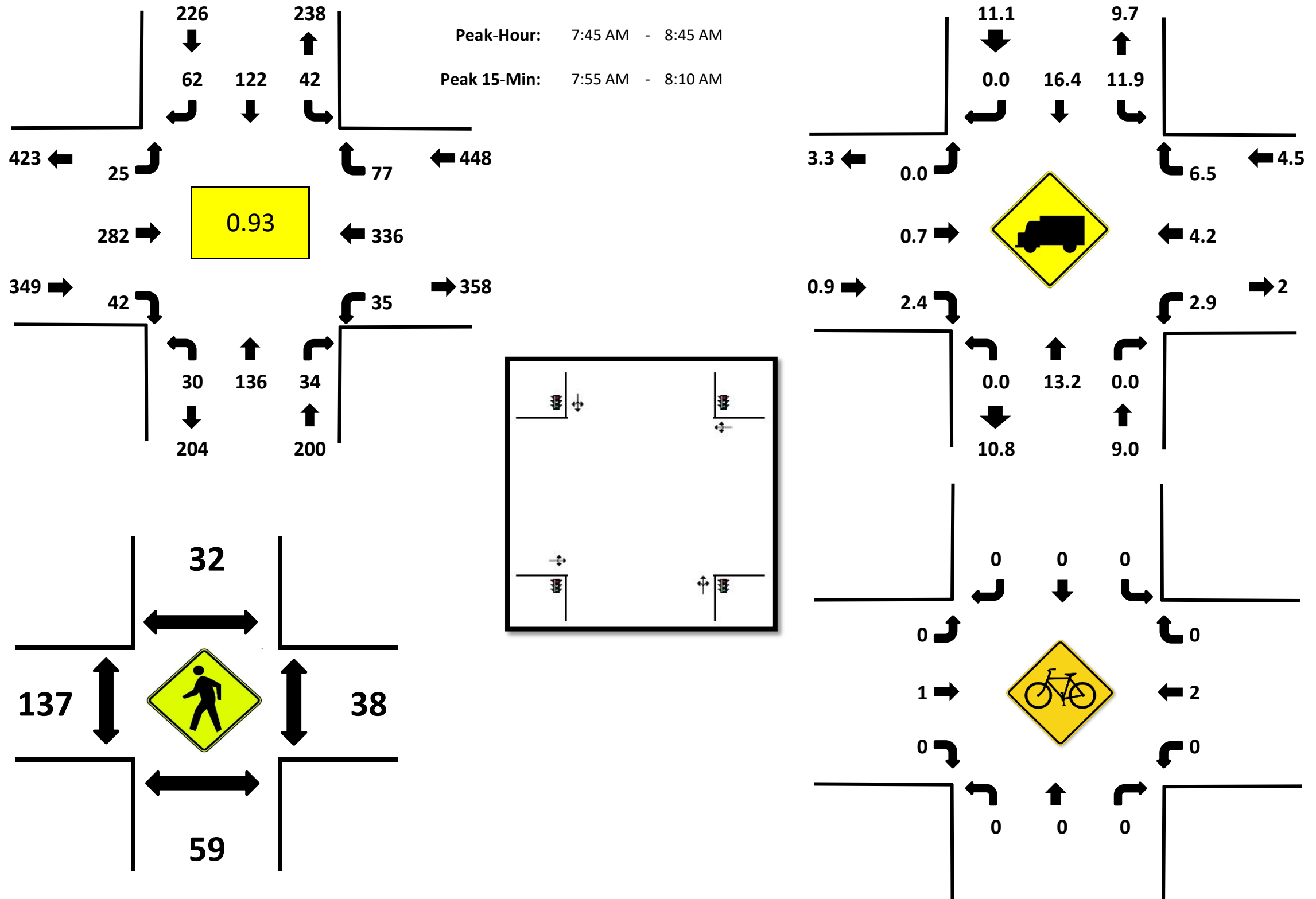


Quality Counts
DATA THAT DRIVES COMMUNITIES

QC JOB #: 14955175

CITY/STATE: San Francisco, CA

DATE: 5/22/2019



Count Period	W Portal Ave Northbound				W Portal Ave Southbound				Vicente St Eastbound				Vicente St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	3	8	3	0	4	3	3	0	1	9	0	0	3	9	3	0	49	
7:05 AM	1	5	1	0	5	3	2	0	1	12	1	0	3	9	5	0	48	
7:10 AM	1	10	1	0	1	2	4	0	0	14	2	0	2	10	3	0	50	
7:15 AM	1	9	1	0	2	4	0	0	0	17	3	0	2	17	4	0	60	
7:20 AM	1	8	2	0	4	5	5	0	3	18	2	0	3	19	1	0	71	
7:25 AM	1	9	0	0	0	10	3	0	3	20	0	0	2	26	8	0	82	
7:30 AM	0	12	0	0	5	3	4	0	2	22	6	0	5	29	4	0	92	
7:35 AM	1	17	3	0	6	9	7	0	2	17	4	0	1	31	6	0	104	
7:40 AM	1	13	0	1	5	4	0	0	0	22	5	0	3	32	1	0	87	
7:45 AM	4	14	0	0	2	9	4	0	2	21	6	0	2	32	6	0	102	
7:50 AM	1	4	3	0	3	6	3	0	0	26	3	0	5	46	1	0	101	
7:55 AM	2	8	4	0	4	14	4	0	4	28	1	0	2	39	5	0	115	961
8:00 AM	0	11	4	1	7	10	7	0	1	26	3	0	1	28	8	0	107	1019
8:05 AM	0	12	1	0	2	10	4	0	0	27	1	0	4	40	7	0	108	1079
8:10 AM	2	9	5	1	5	3	6	0	2	33	1	0	2	26	7	0	102	1131
8:15 AM	2	10	4	0	4	15	5	0	0	20	1	0	9	21	4	0	95	1166
8:20 AM	3	18	1	1	2	14	5	0	3	22	2	0	1	22	3	0	97	1192
8:25 AM	4	13	4	2	4	3	6	0	7	22	7	0	1	20	9	0	102	1212
8:30 AM	2	14	3	0	3	10	8	0	1	24	7	0	0	14	11	0	97	1217
8:35 AM	5	12	2	0	0	15	6	0	3	15	4	0	3	26	8	0	99	1212
8:40 AM	0	11	3	0	6	13	4	0	2	18	6	0	5	22	8	0	98	1223
8:45 AM	1	7	0	1	3	9	10	0	1	24	2	0	6	33	5	0	102	1223
8:50 AM	0	5	7	0	8	16	4	0	2	16	1	0	2	20	6	0	87	1209
8:55 AM	3	7	6	0	6	16	4	0	3	15	3	0	6	16	4	0	89	1183
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	8	124	36	4	52	136	60	0	20	324	20	0	28	428	80	0	1320	
Heavies	0	24	0		8	20	0		0	0	0		0	16	8		76	
Peds		56				16				120				40			232	
2HR Bikes	0	0	0		0	0	0		0	1	0		0	2	3		6	

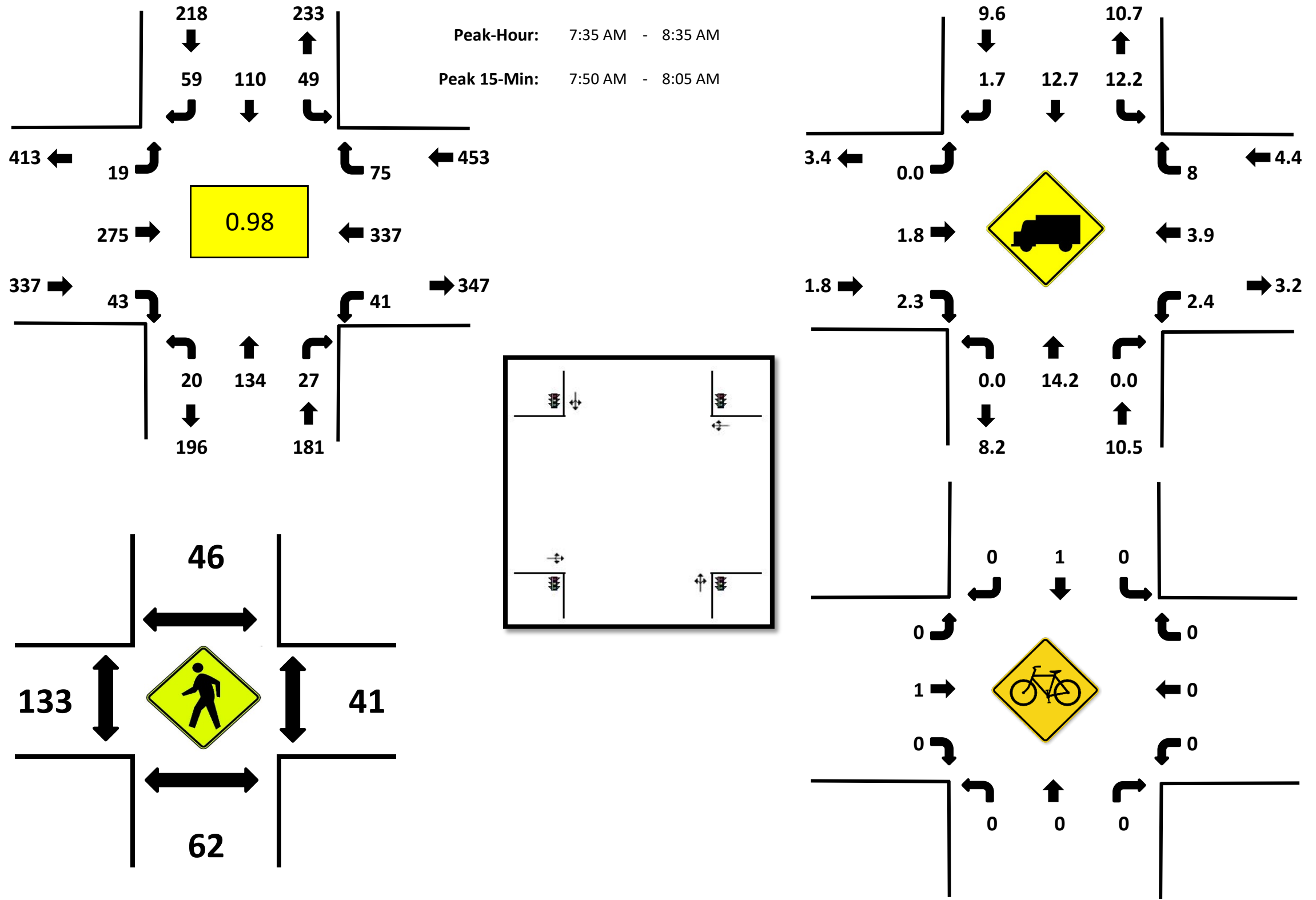
LOCATION: W Portal Ave & Vicente St



QC JOB #: 14955176

CITY/STATE: San Francisco, CA

DATE: 5/23/2019



Count Period	W Portal Ave Northbound				W Portal Ave Southbound				Vicente St Eastbound				Vicente St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	12	0	0	0	4	1	0	1	9	1	0	2	7	5	0	42	
7:05 AM	1	7	2	0	3	3	3	0	0	7	0	0	4	12	6	0	48	
7:10 AM	0	6	1	0	3	6	5	0	1	23	1	0	1	8	3	0	58	
7:15 AM	2	5	1	0	6	4	5	0	0	12	4	0	1	22	2	0	64	
7:20 AM	2	11	3	0	4	2	4	0	0	17	2	0	2	13	3	0	63	
7:25 AM	1	4	3	0	4	7	3	0	1	16	3	0	5	21	3	0	71	
7:30 AM	1	13	3	1	2	7	4	0	3	17	3	0	6	26	8	0	94	
7:35 AM	2	14	5	0	6	8	2	0	2	23	6	0	3	28	4	0	103	
7:40 AM	1	12	0	0	4	6	5	0	1	19	2	0	1	37	5	0	93	
7:45 AM	1	9	1	0	4	12	4	0	1	24	2	0	1	35	6	0	100	
7:50 AM	1	15	2	0	7	6	3	0	0	19	3	0	4	34	9	0	103	
7:55 AM	0	10	1	1	4	12	2	0	2	17	2	0	7	35	2	1	96	935
8:00 AM	1	16	0	0	6	3	7	2	1	32	3	0	3	27	3	0	104	997
8:05 AM	1	7	4	1	2	8	2	0	2	28	6	0	3	29	5	0	98	1047
8:10 AM	1	7	3	1	3	10	5	0	2	29	4	0	2	21	8	0	96	1085
8:15 AM	0	9	4	0	3	12	8	0	0	19	3	0	2	28	5	0	93	1114
8:20 AM	4	6	3	0	2	12	8	1	4	28	2	0	4	20	5	0	99	1150
8:25 AM	2	17	0	0	1	11	5	2	2	19	6	0	9	21	13	0	108	1187
8:30 AM	3	12	4	0	2	10	8	0	2	18	4	0	1	22	10	0	96	1189
8:35 AM	3	12	2	0	4	10	3	0	3	11	1	0	5	13	9	0	76	1162
8:40 AM	4	9	4	0	5	5	6	0	0	20	5	0	8	28	3	0	97	1166
8:45 AM	3	8	6	1	5	5	5	0	1	14	5	0	4	27	2	0	86	1152
8:50 AM	0	8	2	0	3	8	5	0	4	16	2	0	6	24	5	0	83	1132
8:55 AM	2	10	5	0	2	9	7	0	3	12	4	0	2	22	1	0	79	1115
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	8	164	12	4	68	84	48	8	12	272	32	0	56	384	56	4	1212	
Heavies	0	24	0		4	8	0		0	12	0		0	16	8		72	
Peds		56				44				108				28			236	
2HR Bikes	0	2	0		0	2	0		0	3	0		0	2	9		18	



Location: Wawona St/Madrone Ave -- Vicente St

Date: 5/22/2019

Site Code: 14955177

Start Time	Wawona St Southbound					Vicente St Westbound					Wawona St Northbound					Vicente St Eastbound					Madrone Ave Southeastbound					
	Right to Madrone	Right	Thru	Left	U-Turns	Right	Right to Madrone	Thru	Left	U-Turns	Right	Thru	Thru to Madrone	Left	U-Turns	Right	Thru	Left	Left to Madrone	U-Turns	Right to Vicente	Thru to Wawona	Left to Vicente	Left to Wawona	U-Turns	
07:00 AM	0	0	2	0	0	0	1	11	2	0	1	1	0	0	0	0	7	1	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	1	1	11	1	0	1	2	0	0	0	0	16	0	0	0	0	0	1	0	0	0
07:10 AM	0	0	3	3	0	0	1	14	0	0	2	1	0	1	0	0	14	2	0	0	0	0	0	0	0	0
07:15 AM	0	2	1	2	0	2	0	15	1	1	2	0	1	0	0	0	16	5	0	0	0	0	1	0	0	
07:20 AM	0	0	0	1	0	3	0	20	0	0	1	3	0	1	0	0	17	1	0	0	0	0	1	0	0	
07:25 AM	0	2	5	4	0	4	0	28	0	0	1	1	3	0	0	0	22	1	0	0	0	0	1	0	0	
07:30 AM	0	1	4	1	0	3	0	32	0	0	2	1	0	0	0	2	26	1	0	0	0	0	1	1	0	
07:35 AM	0	0	5	1	0	5	2	31	1	0	3	3	0	1	0	0	23	1	0	0	0	0	0	0	0	
07:40 AM	1	1	6	4	0	2	1	30	0	0	3	1	0	1	0	0	18	4	0	0	0	0	1	0	0	
07:45 AM	0	1	2	2	0	3	2	37	0	1	1	4	1	0	0	1	20	3	0	0	0	0	0	2	0	
07:50 AM	1	0	5	2	0	2	1	41	1	0	4	4	1	1	0	0	28	3	2	0	0	0	3	1	0	
07:55 AM	0	0	5	1	0	5	4	35	5	0	1	3	0	1	0	1	27	2	1	0	0	0	0	0	0	
08:00 AM	0	0	2	0	0	4	1	31	0	1	1	2	2	1	0	1	25	3	1	0	0	0	2	2	0	
08:05 AM	0	1	5	1	0	3	1	40	0	0	2	4	1	0	1	0	29	5	2	0	0	0	2	0	0	
08:10 AM	1	2	5	3	0	3	2	28	2	0	2	3	2	0	1	0	27	3	1	0	0	0	1	0	0	
08:15 AM	0	1	3	1	0	2	4	20	3	0	1	1	0	2	0	0	27	2	0	0	0	0	0	0	0	
08:20 AM	0	1	2	2	0	2	3	21	2	1	3	4	3	0	1	0	20	1	0	0	0	0	1	2	0	
08:25 AM	1	1	4	3	0	7	2	21	2	0	4	2	0	1	0	0	22	3	3	0	0	2	0	1	0	
08:30 AM	1	0	4	2	0	3	0	18	0	2	1	2	2	1	0	0	32	3	1	0	0	0	1	0	0	
08:35 AM	0	2	3	0	0	4	0	34	0	0	4	1	0	1	0	0	19	2	0	0	0	0	0	1	0	
08:40 AM	0	0	6	3	0	5	1	15	0	1	0	2	0	0	0	0	18	2	0	1	1	0	1	0	0	
08:45 AM	0	2	2	5	0	2	2	35	2	0	1	3	0	1	0	0	26	1	1	0	2	1	0	0	0	
08:50 AM	0	0	2	0	0	2	3	20	2	0	0	1	0	1	0	0	15	3	0	0	0	0	0	0	0	
08:55 AM	0	0	4	1	1	1	3	18	2	0	3	1	2	0	0	0	16	1	2	0	0	0	1	0	0	
Total	5	17	80	42	1	68	35	606	26	7	44	50	18	14	3	5	510	53	14	1	5	17	11	1	0	

Peak Hour: 7:30 AM - 8:30 AM

Peak 15-Min: 7:45 AM - 8:00 AM

PHF: 0.896679



Location: Wawona St/Madrone Ave -- Vicente St

Date: 5/23/2019

Site Code: 14955178

Start Time	Wawona St Southbound					Vicente St Westbound					Wawona St Northbound					Vicente St Eastbound					Madrone Ave Southeastbound					
	Right to Madrone	Right	Thru	Left	U-Turns	Right	Right to Madrone	Thru	Left	U-Turns	Right	Thru	Thru to Madrone	Left	U-Turns	Right	Thru	Left	Left to Madrone	U-Turns	Right to Vicente	Thru to Wawona	Left to Vicente	Left to Wawona	U-Turns	
07:00 AM	0	0	0	0	0	1	0	5	0	0	0	2	0	0	0	0	12	0	0	0	0	0	1	0	0	0
07:05 AM	0	0	0	2	0	1	0	17	1	0	0	0	0	0	0	0	7	2	0	0	0	0	1	0	0	0
07:10 AM	0	0	2	1	0	0	1	12	0	0	2	1	0	0	0	0	22	4	0	0	0	0	2	0	0	0
07:15 AM	0	1	2	0	0	4	1	26	0	0	1	2	2	0	0	0	14	1	0	0	0	0	0	0	0	0
07:20 AM	0	0	1	2	0	2	3	11	0	0	1	4	1	0	0	0	16	0	0	0	0	0	1	1	0	0
07:25 AM	0	0	2	0	0	2	1	23	0	0	1	0	2	0	0	0	20	2	0	0	0	0	2	1	0	0
07:30 AM	0	0	7	2	0	2	2	26	0	0	2	0	0	3	0	0	17	0	0	0	0	0	1	1	0	0
07:35 AM	0	2	4	0	0	0	2	32	0	0	5	2	0	1	0	0	28	2	0	1	0	0	1	0	0	0
07:40 AM	0	0	2	3	0	5	1	37	1	0	1	5	0	1	0	0	15	4	0	1	1	0	0	0	0	0
07:45 AM	1	3	1	1	0	1	1	36	1	0	1	4	1	0	0	2	21	3	1	0	0	1	1	1	0	0
07:50 AM	1	0	2	1	0	2	2	33	1	0	1	7	0	0	0	0	19	1	1	0	0	1	0	0	0	0
07:55 AM	1	0	3	4	0	1	1	34	1	0	0	5	3	0	0	0	25	3	1	0	0	2	1	0	0	0
08:00 AM	0	0	2	2	0	3	0	28	0	2	0	2	0	0	0	0	29	2	2	0	1	1	1	0	0	0
08:05 AM	0	1	5	0	0	4	1	24	2	1	1	4	0	0	0	1	32	2	3	0	1	2	1	0	0	0
08:10 AM	0	0	5	3	0	2	1	15	2	0	0	3	2	0	0	2	25	4	0	0	0	0	1	0	0	0
08:15 AM	0	0	4	1	1	5	3	35	1	1	1	5	0	0	0	0	26	1	0	0	0	0	0	0	0	0
08:20 AM	0	1	4	3	0	6	1	20	2	1	2	1	0	1	0	0	28	3	1	0	2	0	0	0	0	0
08:25 AM	1	0	7	4	0	4	1	18	2	0	4	6	1	1	0	1	17	1	1	0	1	1	1	0	0	0
08:30 AM	2	1	3	4	0	5	2	23	3	1	2	4	1	0	0	0	12	2	0	0	0	0	1	0	0	0
08:35 AM	0	1	3	0	0	5	1	14	0	0	1	5	1	0	0	0	16	3	2	0	0	0	1	0	0	0
08:40 AM	1	1	10	2	0	10	3	22	1	1	1	3	2	0	0	0	19	1	0	0	0	0	2	0	0	0
08:45 AM	1	2	4	4	0	2	5	27	1	0	1	3	1	0	0	1	15	0	0	0	0	2	1	0	0	0
08:50 AM	0	0	1	0	0	0	5	20	4	0	0	0	3	1	0	0	20	0	2	0	2	0	1	0	0	0
08:55 AM	0	0	0	0	0	0	5	23	2	0	2	0	4	1	0	0	17	0	1	0	0	0	1	0	0	0
Total	8	13	74	39	1	67	43	561	25	7	30	68	24	9	0	7	472	41	15	2	8	17	18	1	0	

Peak Hour: 7:35 AM - 8:35 AM

Peak 15-Min: 7:55 AM - 8:10 AM

PHF: 0.936735



Attachment

Traffic Volume Counts – During Pilot and With PCO

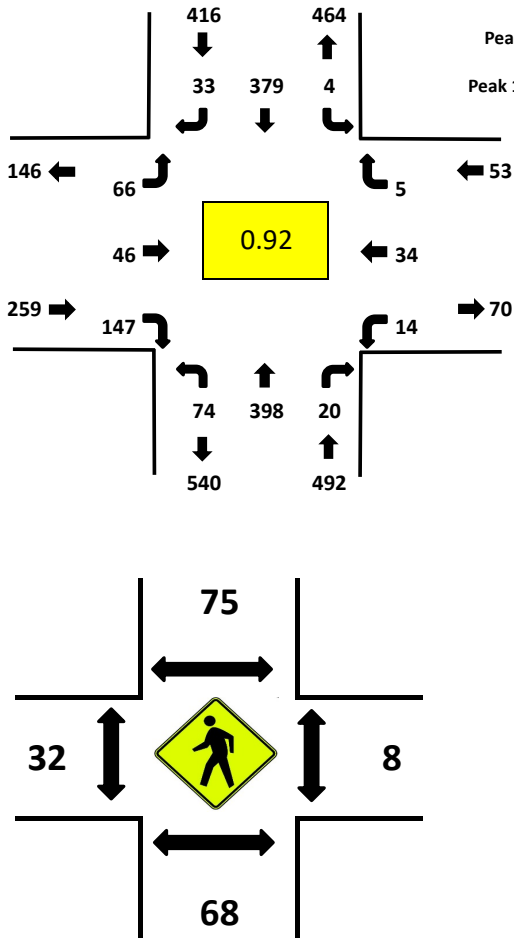
LOCATION: 59 - Clarmont Blvd & Ulloa St



QC JOB #: 15059705

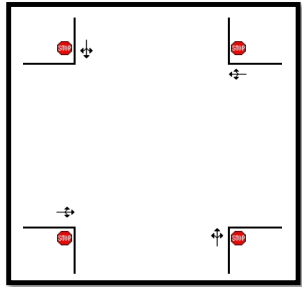
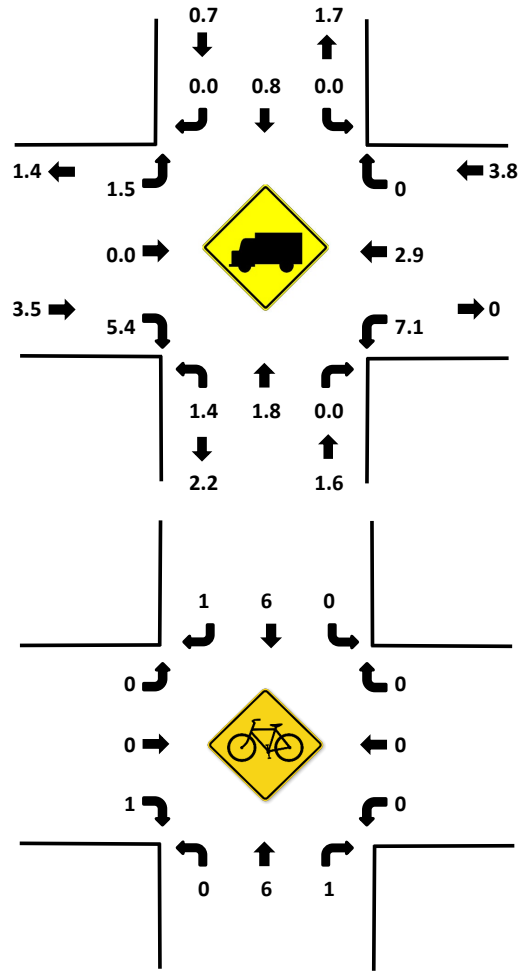
CITY/STATE: San Francisco, CA

DATE: 9/24/2019



Peak-Hour: 7:30 AM - 8:30 AM

Peak 15-Min: 7:45 AM - 8:00 AM



Count Period	59 - Clarmont Blvd Northbound				59 - Clarmont Blvd Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	4	33	0	0	1	25	0	0	2	1	10	0	0	0	1	0	77	
7:05 AM	3	23	2	0	1	27	0	0	0	0	7	0	0	1	3	0	67	
7:10 AM	5	35	0	0	1	25	3	0	2	0	6	1	0	0	0	0	78	
7:15 AM	3	40	0	0	0	18	2	0	5	0	11	0	2	3	0	0	84	
7:20 AM	4	31	0	0	0	27	0	0	3	0	6	0	2	0	0	0	73	
7:25 AM	3	34	2	0	0	26	3	0	5	2	9	1	1	1	1	0	88	
7:30 AM	4	33	1	0	0	29	2	0	3	5	9	0	0	6	0	0	92	
7:35 AM	5	34	1	0	1	34	3	0	6	6	7	1	1	2	0	0	101	
7:40 AM	5	38	3	0	0	26	1	0	6	6	14	0	2	2	0	0	103	
7:45 AM	8	31	3	0	0	36	2	0	7	5	12	0	2	5	0	0	111	
7:50 AM	6	33	7	0	1	40	1	0	4	3	12	0	0	1	0	0	108	
7:55 AM	7	33	0	0	0	31	2	0	3	7	19	0	1	6	2	0	111	1093
8:00 AM	6	34	1	0	0	36	2	0	6	4	13	1	5	0	0	0	108	1124
8:05 AM	3	37	1	0	2	36	4	0	5	2	13	0	0	5	1	0	109	1166
8:10 AM	8	30	0	0	0	30	5	0	4	2	10	0	2	1	1	0	93	1181
8:15 AM	9	31	0	0	0	26	5	0	5	1	13	2	0	3	0	0	95	1192
8:20 AM	7	26	1	0	0	24	2	0	9	3	12	1	0	1	1	0	87	1206
8:25 AM	6	38	2	0	0	31	4	0	3	2	13	0	1	2	0	0	102	1220
8:30 AM	5	31	3	0	0	20	3	0	7	2	8	0	1	2	0	0	82	1210
8:35 AM	7	35	0	0	2	22	3	0	8	0	10	0	2	3	1	0	93	1202
8:40 AM	7	37	0	0	0	41	3	0	5	2	4	3	1	2	0	0	105	1204
8:45 AM	5	24	1	0	0	38	2	0	4	1	9	0	2	4	0	0	90	1183
8:50 AM	7	22	0	0	0	38	6	0	8	0	14	1	0	1	2	0	99	1174
8:55 AM	2	32	0	0	1	32	2	0	0	4	7	0	0	4	1	0	85	1148
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	84	388	40	0	4	428	20	0	56	60	172	0	12	48	8	0	1320	
Heavies	4	8	0		0	4	0		0	0	4		0	0	0		20	
Peds		44				96				12				8			160	
2HR Bikes	0	8	1		0	9	1		0	3	2		0	0	0		24	



Location: Wawona St - Vicente St

Date: 9/24/2019

Site Code: 15059709

Start Time	Wawona St Southbound					Vicente St Westbound					Wawona St Northbound					Vicente St Eastbound					Madrone Ave Southeastbound					
	Right to Madrone Ave	Right	Thru	Left	U-Turn	Right	Right to Madrone Ave	Thru	Left	U-Turn	Right	Thru	Left to Madrone Ave	Left	U-Turn	Right	Thru	Left	Left to Madrone Ave	U-Turn	Right to Vicente St	Right to Wawona St	Left to Vicente St	Left to Wawona St	U-Turn	
07:00 AM	0	0	0	0	0	1	0	12	0	0	0	4	0	0	0	0	12	1	0	0	0	0	2	1	0	0
07:05 AM	0	1	2	1	0	0	0	10	1	1	1	1	0	0	0	0	10	0	0	0	0	0	0	1	0	0
07:10 AM	0	0	2	2	0	1	0	14	2	0	3	0	0	0	0	0	12	0	0	0	0	0	0	1	0	0
07:15 AM	0	0	3	2	0	1	0	24	0	0	3	2	0	0	0	1	19	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	9	1	0	3	1	30	0	0	0	1	1	0	0	0	14	0	0	0	0	1	0	1	0	0
07:25 AM	0	1	4	2	0	4	0	21	0	0	1	3	0	0	0	0	28	1	0	0	0	0	1	1	0	0
07:30 AM	0	0	3	2	0	5	0	29	1	0	2	5	0	0	0	1	29	1	0	0	0	0	1	1	0	0
07:35 AM	0	1	8	1	0	4	1	35	1	1	3	1	0	2	0	0	27	1	0	0	0	1	2	0	0	0
07:40 AM	0	2	4	2	0	0	1	38	0	0	1	1	1	0	0	0	18	6	1	0	0	0	0	1	0	0
07:45 AM	1	2	0	4	0	5	3	33	1	0	0	2	1	2	0	0	28	0	0	0	0	0	3	2	1	0
07:50 AM	0	1	5	2	0	1	2	40	1	1	1	0	0	1	0	0	20	2	0	0	0	1	1	0	0	0
07:55 AM	0	0	3	3	0	4	2	47	0	0	1	3	2	0	0	1	34	2	2	0	0	3	2	1	0	0
08:00 AM	1	0	2	1	0	5	2	24	2	0	1	1	0	0	0	0	32	3	2	0	0	0	2	1	0	0
08:05 AM	0	0	4	0	0	3	1	25	1	0	4	8	0	0	0	0	28	3	0	0	0	0	0	2	0	0
08:10 AM	0	0	4	3	0	1	1	29	2	0	3	6	2	0	0	2	33	2	1	0	0	0	0	0	0	0
08:15 AM	0	1	4	1	0	4	1	25	2	0	2	6	0	1	0	0	26	6	0	0	0	0	0	0	0	0
08:20 AM	0	0	3	0	0	4	2	23	0	0	2	9	1	0	0	1	21	7	2	1	0	0	1	0	0	0
08:25 AM	0	0	3	1	0	2	1	29	1	0	1	1	1	1	0	1	17	3	0	0	0	0	0	1	0	0
08:30 AM	0	0	2	1	0	6	4	30	2	1	0	6	1	0	0	0	22	2	0	0	0	0	1	0	0	0
08:35 AM	1	0	3	0	0	10	0	22	1	0	0	6	0	1	0	2	25	0	1	0	0	0	0	1	0	0
08:40 AM	0	0	4	2	0	2	2	30	1	2	1	2	0	0	1	0	21	1	0	0	0	1	0	2	0	0
08:45 AM	0	0	8	4	0	2	2	23	0	0	1	0	2	0	0	1	29	3	0	0	0	0	0	0	0	0
08:50 AM	0	1	4	2	0	0	1	30	1	0	1	1	1	0	0	0	14	3	3	0	0	0	1	0	0	1
08:55 AM	0	0	2	1	0	4	1	25	2	0	1	0	0	0	0	0	16	1	1	0	0	0	0	0	0	0
Total	3	10	86	38	0	72	28	648	22	6	33	69	13	8	1	10	535	48	13	1	7	17	17	1	1	

Peak Hour: 7:25 AM - 8:25 AM

Peak 15: 7:45 AM - 8:00 AM

PHF: 0.895307

LOCATION: 57 - W Portal Ave & Ulloa St



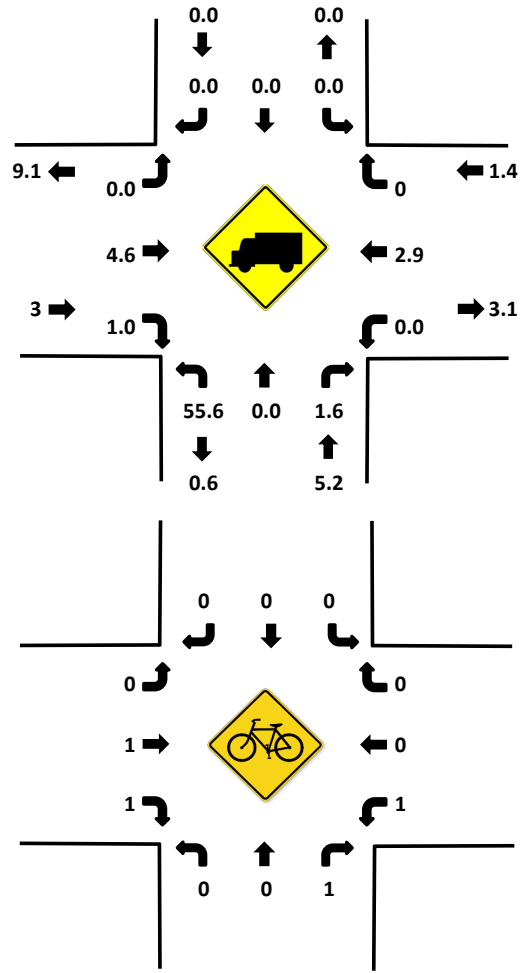
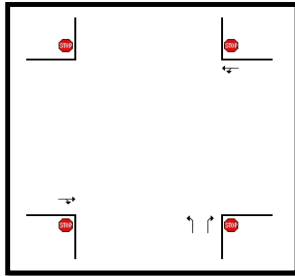
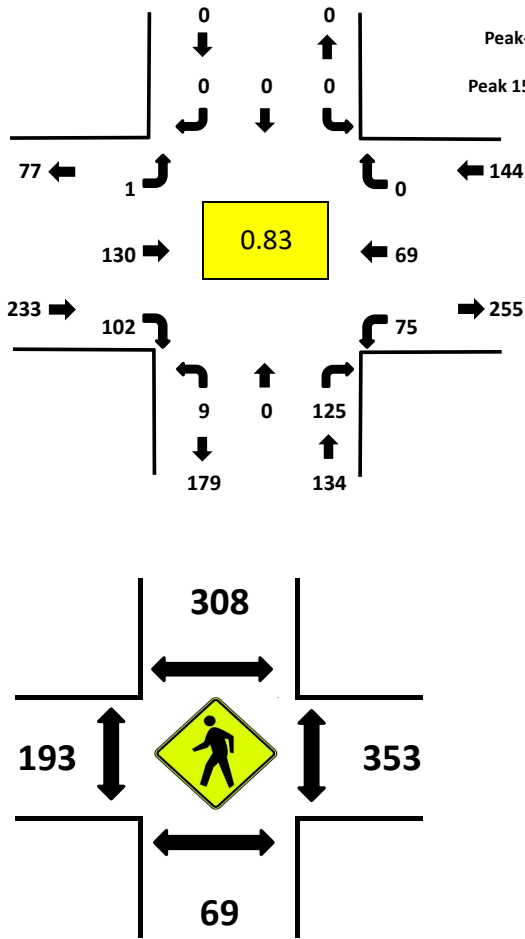
QC JOB #: 15059701

CITY/STATE: San Francisco, CA

DATE: 9/24/2019

Peak-Hour: 7:40 AM - 8:40 AM

Peak 15-Min: 8:10 AM - 8:25 AM



Count Period	57 - W Portal Ave Northbound				57 - W Portal Ave Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	0	6	2	0	0	0	0	0	6	5	1	2	1	0	0	23	
7:05 AM	2	0	4	0	0	0	0	0	0	4	3	2	4	1	0	0	20	
7:10 AM	0	0	8	0	0	0	0	0	0	2	4	0	5	2	0	0	21	
7:15 AM	1	0	13	1	0	0	0	0	0	1	3	1	5	4	0	0	29	
7:20 AM	1	0	6	0	0	0	0	0	0	5	9	0	2	3	0	0	26	
7:25 AM	3	0	8	1	0	0	0	0	0	7	5	1	6	2	0	0	33	
7:30 AM	0	0	12	2	0	0	0	0	0	5	8	0	8	3	0	0	38	
7:35 AM	2	0	11	1	0	0	0	0	0	8	3	3	4	6	0	0	38	
7:40 AM	0	0	15	0	0	0	0	0	0	13	7	0	4	3	0	0	42	
7:45 AM	1	0	6	0	0	0	0	0	0	13	5	0	6	5	0	0	36	
7:50 AM	0	0	8	0	0	0	0	0	0	10	7	0	7	6	0	0	38	
7:55 AM	1	0	11	0	0	0	0	0	0	20	8	0	5	10	0	0	55	399
8:00 AM	1	0	10	0	0	0	0	0	0	15	9	0	3	5	0	0	43	419
8:05 AM	1	0	7	1	0	0	0	0	0	8	7	0	6	4	0	0	34	433
8:10 AM	0	0	9	0	0	0	0	0	0	8	14	1	11	3	0	0	46	458
8:15 AM	0	0	14	1	0	0	0	0	0	7	12	0	6	11	0	0	51	480
8:20 AM	1	0	13	0	0	0	0	0	0	14	12	0	10	6	0	0	56	510
8:25 AM	0	0	7	0	0	0	0	0	0	10	7	0	4	5	0	0	33	510
8:30 AM	1	0	14	0	0	0	0	0	0	4	6	0	5	5	0	0	35	507
8:35 AM	1	0	11	0	0	0	0	0	0	8	8	0	8	6	0	0	42	511
8:40 AM	3	0	9	0	0	0	0	0	0	3	4	0	5	6	0	0	30	499
8:45 AM	0	0	7	0	0	0	0	0	0	7	5	0	6	9	0	0	34	497
8:50 AM	0	0	16	0	0	0	0	0	0	7	6	0	4	7	0	0	40	499
8:55 AM	1	0	6	1	0	0	0	0	0	6	5	0	7	2	0	0	28	472
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	4	0	144	4	0	0	0	0	0	116	152	4	108	80	0	0	612	
Heavies	4	0	8		0	0	0		0	4	0		0	4	0		20	
Peds		80				392				240				268			980	
2HR Bikes	0	0	1		0	0	0		0	4	1		1	0	0		7	

LOCATION: 60 - W Portal Ave & Vicente St

QC JOB #: 15059707

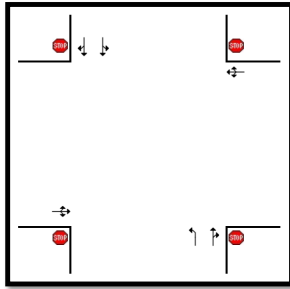
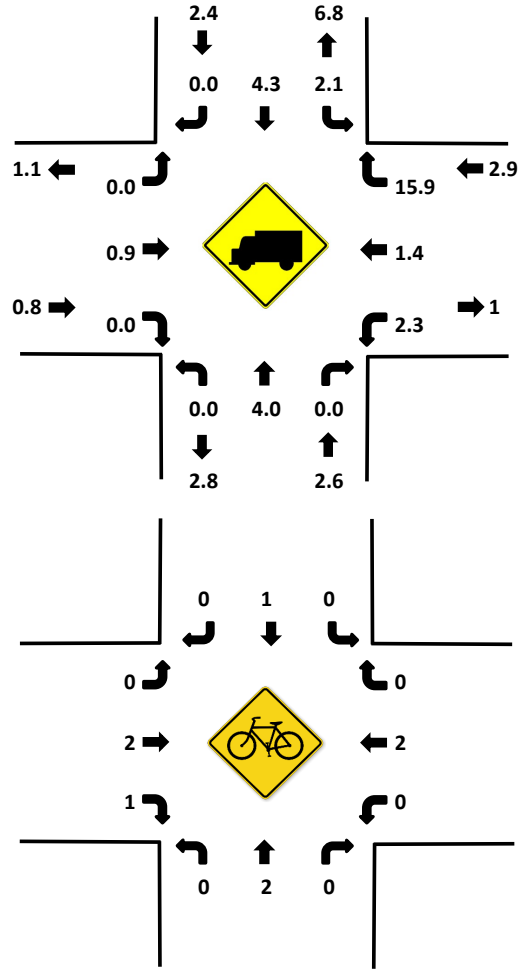
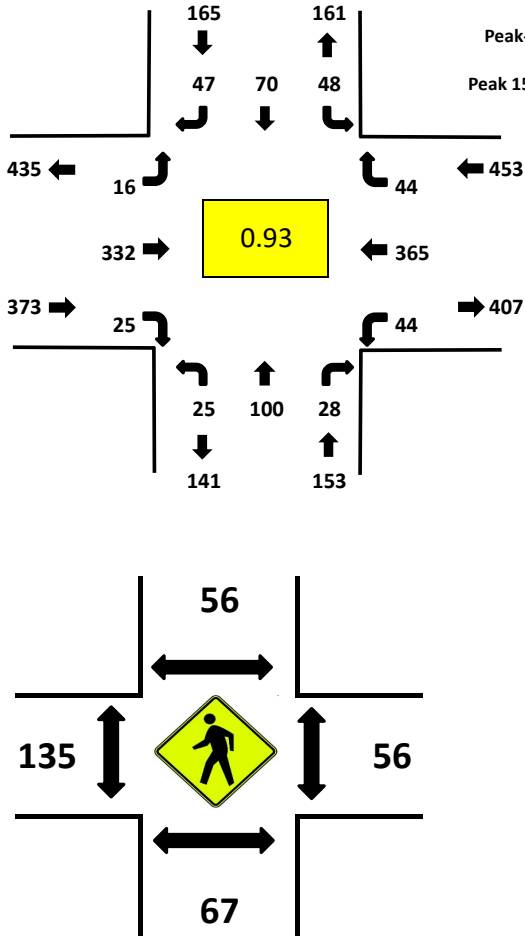
CITY/STATE: San Francisco, CA



DATE: 9/24/2019

Peak-Hour: 7:25 AM - 8:25 AM

Peak 15-Min: 7:45 AM - 8:00 AM



Count Period	60 - W Portal Ave Northbound				60 - W Portal Ave Southbound				Vicente St Eastbound				Vicente St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	10	1	0	1	1	4	0	0	10	2	0	2	11	0	0	42	
7:05 AM	1	6	2	0	3	2	1	0	0	12	0	0	2	9	2	0	40	
7:10 AM	2	7	1	0	3	3	3	0	1	10	4	0	2	10	1	0	47	
7:15 AM	1	8	1	0	4	4	3	0	1	21	1	0	2	23	3	0	72	
7:20 AM	0	5	1	0	3	2	6	0	0	17	0	0	2	32	2	0	70	
7:25 AM	2	9	2	0	4	2	2	0	3	26	1	0	2	15	5	0	73	
7:30 AM	5	7	1	0	3	8	5	0	2	22	4	0	9	26	2	0	94	
7:35 AM	4	11	2	0	1	4	1	1	3	30	1	0	2	39	5	0	104	
7:40 AM	1	10	1	0	3	7	2	0	2	22	2	0	2	36	4	0	92	
7:45 AM	2	9	2	0	4	4	5	0	2	27	2	0	3	34	2	0	96	
7:50 AM	3	10	5	0	8	7	1	0	0	22	1	0	3	39	7	0	106	
7:55 AM	0	5	0	0	3	3	3	0	1	35	2	0	3	47	5	0	107	943
8:00 AM	3	6	4	1	1	1	7	0	0	36	3	0	2	27	3	0	94	995
8:05 AM	2	8	3	0	3	7	3	0	2	31	3	0	3	29	5	0	99	1054
8:10 AM	1	6	3	1	7	13	5	0	0	27	3	0	6	23	0	0	95	1102
8:15 AM	0	10	2	0	4	7	3	0	1	30	2	0	4	24	3	0	90	1120
8:20 AM	0	9	3	0	6	7	10	0	0	24	1	0	5	26	3	0	94	1144
8:25 AM	2	7	3	0	4	5	4	0	0	15	0	0	1	22	1	0	64	1135
8:30 AM	8	8	2	0	4	6	4	0	3	22	0	0	4	32	7	0	100	1141
8:35 AM	4	4	0	0	2	7	4	0	0	24	2	0	4	31	4	0	86	1123
8:40 AM	2	8	3	0	2	4	5	0	2	23	2	0	4	21	6	0	82	1113
8:45 AM	2	7	6	0	3	5	4	0	2	25	2	0	1	24	4	0	85	1102
8:50 AM	3	11	3	1	4	4	1	0	1	19	1	0	2	30	1	0	81	1077
8:55 AM	5	6	4	1	6	9	0	0	0	16	2	0	7	28	1	0	85	1055
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	20	96	28	0	60	56	36	0	12	336	20	0	36	480	56	0	1236	
Heavies	0	4	0		4	0	0		0	0	0		4	4	8		24	
Peds		48				36				136				40			260	
2HR Bikes	0	3	0		1	1	0		1	4	1		0	2	0		13	



Attachment

Traffic Volume Counts – During Pilot and Without PCO

LOCATION: 59 - Clarmont Blvd & Ulloa St

QC JOB #: 15059706

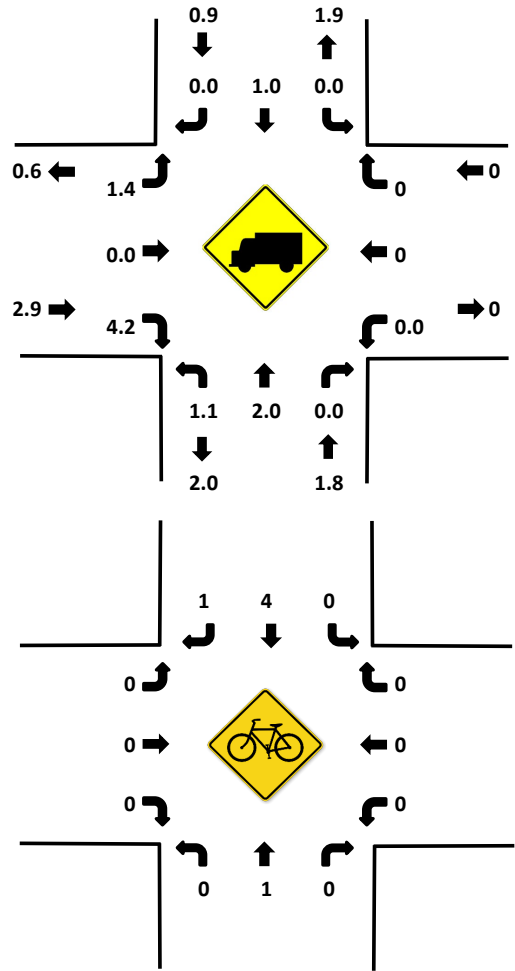
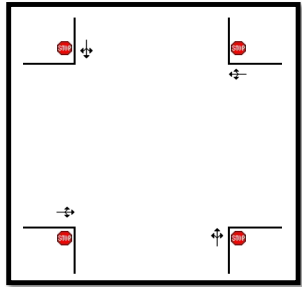
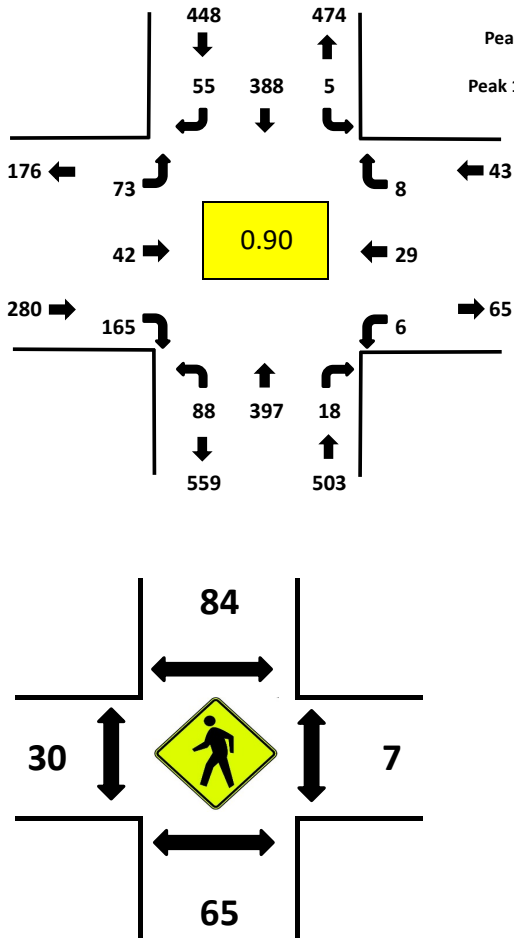
CITY/STATE: San Francisco, CA



DATE: 10/23/2019

Peak-Hour: 7:30 AM - 8:30 AM

Peak 15-Min: 8:00 AM - 8:15 AM



Count Period	59 - Clarmont Blvd Northbound				59 - Clarmont Blvd Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	1	25	0	0	0	17	0	0	0	1	3	1	0	1	0	0	49	
7:05 AM	2	35	0	0	0	18	1	0	0	1	5	0	0	0	1	0	63	
7:10 AM	4	28	1	0	0	30	6	0	2	0	10	0	1	1	0	0	83	
7:15 AM	3	26	0	0	0	25	3	0	5	2	9	1	0	0	0	0	74	
7:20 AM	2	39	0	0	0	28	3	0	6	2	6	0	0	1	0	0	87	
7:25 AM	4	39	2	1	0	25	2	0	3	1	6	0	2	1	0	0	86	
7:30 AM	4	35	0	0	1	26	5	0	9	4	10	0	0	2	0	0	96	
7:35 AM	5	35	2	0	0	34	6	0	4	1	12	1	0	0	0	0	100	
7:40 AM	9	31	2	0	1	30	3	0	3	5	9	0	0	0	1	0	94	
7:45 AM	10	28	5	0	0	37	4	0	4	5	14	0	2	3	1	0	113	
7:50 AM	5	38	3	0	1	31	2	0	7	4	14	0	1	1	0	0	107	
7:55 AM	11	31	2	0	0	28	5	0	4	3	16	0	0	7	1	0	108	
8:00 AM	8	36	1	0	1	44	1	0	5	4	17	0	0	4	0	0	121	1060
8:05 AM	10	31	0	0	0	32	6	0	10	3	14	1	2	5	2	0	116	1132
8:10 AM	6	31	1	0	0	40	7	0	6	2	22	1	0	2	0	0	118	1185
8:15 AM	10	30	1	0	0	38	3	0	3	3	13	0	0	3	0	0	104	1220
8:20 AM	5	34	1	0	0	19	5	0	7	4	9	1	0	1	2	0	88	1250
8:25 AM	5	37	0	0	1	29	8	0	7	4	15	0	1	1	1	0	109	1251
8:30 AM	6	29	2	0	1	32	6	0	1	1	12	0	0	2	2	0	94	1274
8:35 AM	4	30	0	0	1	18	5	0	13	4	10	0	4	1	0	0	90	1272
8:40 AM	10	31	1	0	0	33	5	0	2	3	6	0	0	2	2	0	95	1262
8:45 AM	5	28	0	0	0	43	9	0	2	2	16	0	1	4	0	0	110	1263
8:50 AM	5	22	0	0	1	37	6	0	6	1	12	1	2	1	0	0	94	1260
8:55 AM	6	15	0	1	0	29	2	0	6	5	11	0	1	0	3	0	79	1247
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	96	392	8	0	4	464	56	0	84	36	212	8	8	44	8	0	1420	
Heavies	4	8	0		0	4	0		0	0	4		0	0	0		20	
Peds		44				44				12				0			100	
2HR Bikes	0	4	1		0	9	2		0	1	0		0	3	0		20	

LOCATION: 58 - Lenox Way & Ulloa St



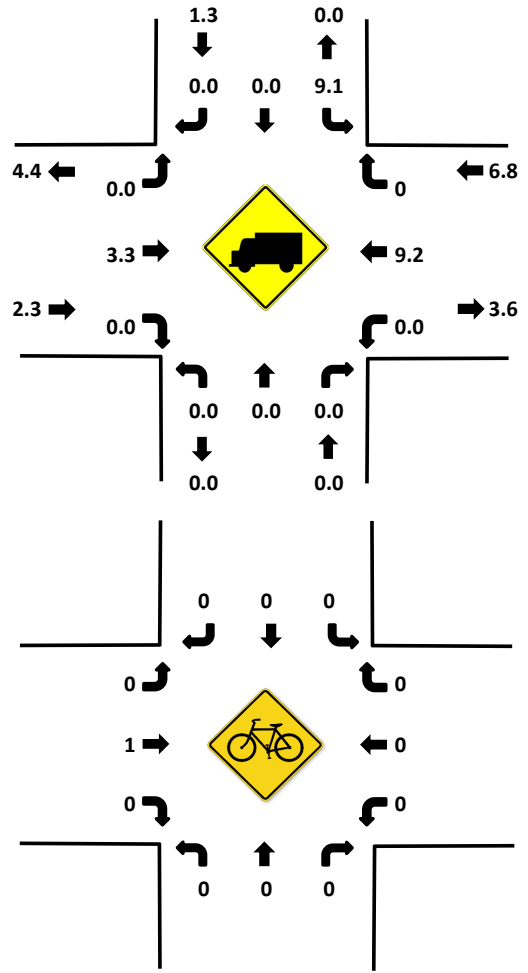
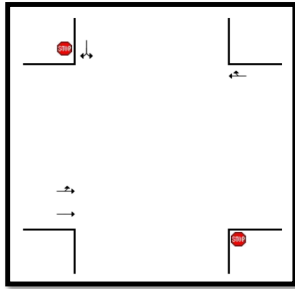
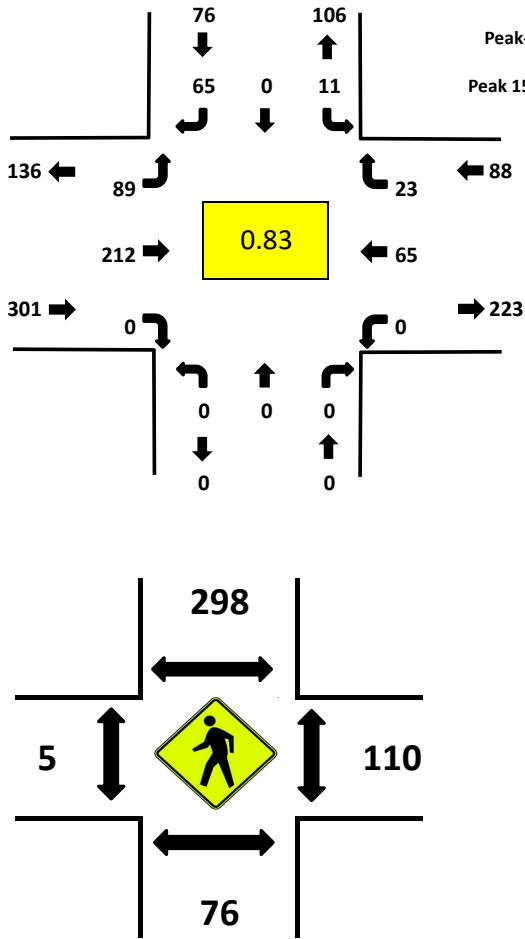
QC JOB #: 15059704

CITY/STATE: San Francisco, CA

DATE: 10/23/2019

Peak-Hour: 8:00 AM - 9:00 AM

Peak 15-Min: 8:35 AM - 8:50 AM



Count Period	58 - Lenox Way Northbound				58 - Lenox Way Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	0	0	0	0	0	2	0	1	6	0	0	0	3	0	0	12	
7:05 AM	0	0	0	0	0	0	1	0	0	9	0	0	0	1	2	0	13	
7:10 AM	0	0	0	0	0	0	3	0	1	10	0	0	0	3	1	0	18	
7:15 AM	0	0	0	0	2	0	2	0	2	6	0	0	0	2	0	0	14	
7:20 AM	0	0	0	0	0	0	4	0	1	2	0	0	0	1	1	0	9	
7:25 AM	0	0	0	0	0	0	3	1	5	17	0	0	0	0	0	0	26	
7:30 AM	0	0	0	0	0	0	3	0	1	7	0	1	0	3	2	0	17	
7:35 AM	0	0	0	0	0	0	8	0	4	16	0	1	0	3	0	0	32	
7:40 AM	0	0	0	0	0	0	7	0	5	16	0	1	0	5	1	0	35	
7:45 AM	0	0	0	0	1	0	1	0	2	24	0	0	0	11	0	0	39	
7:50 AM	0	0	0	0	0	0	5	0	2	13	0	0	0	5	0	0	25	
7:55 AM	0	0	0	0	1	0	4	0	2	10	0	0	0	9	2	0	28	268
8:00 AM	0	0	0	0	0	0	8	0	4	23	0	1	0	8	1	0	45	301
8:05 AM	0	0	0	0	1	0	2	0	0	18	0	0	0	6	1	0	28	316
8:10 AM	0	0	0	0	2	0	3	0	3	21	0	0	0	6	1	0	36	334
8:15 AM	0	0	0	0	0	0	0	0	5	22	0	1	0	7	3	0	38	358
8:20 AM	0	0	0	0	2	0	7	0	4	14	0	2	0	3	3	0	35	384
8:25 AM	0	0	0	0	1	0	5	0	14	18	0	0	0	4	2	0	44	402
8:30 AM	0	0	0	0	1	0	3	0	10	13	0	0	0	5	2	0	34	419
8:35 AM	0	0	0	0	1	0	5	0	26	16	0	2	0	7	2	0	59	446
8:40 AM	0	0	0	0	0	0	13	0	7	9	0	0	0	2	6	0	37	448
8:45 AM	0	0	0	0	1	0	6	0	4	24	0	0	0	7	2	0	44	453
8:50 AM	0	0	0	0	1	0	6	0	4	18	0	0	0	5	0	0	34	462
8:55 AM	0	0	0	0	1	0	7	0	2	16	0	0	0	5	0	0	31	465
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	0	0	0	0	8	0	96	0	148	196	0	8	0	64	40	0	560	
Heavies	0	0	0	0	0	0	0	0	0	4	0	0	0	8	0	0	12	
Peds		88				276				8				176			548	
2HR Bikes	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2	



Location: Wawona St - Vicente St

Date: 10/23/2019

Site Code: 15059710

Start Time	Wawona St Southbound					Vicente St Westbound					Wawona St Northbound					Vicente St Eastbound					Madrone Ave Southeastbound				
	Right to Madrone Ave	Right	Thru	Left	U-Turn	Right	Right to Madrone Ave	Thru	Left	U-Turn	Right	Thru	Left to Madrone Ave	Left	U-Turn	Right	Thru	Left	Left to Madrone Ave	U-Turn	Right to Vicente St	Right to Wawona St	Left to Vicente St	Left to Wawona St	U-Turn
07:00 AM	0	0	2	2	0	1	0	10	0	0	2	0	0	0	0	0	6	1	0	0	0	0	0	0	0
07:05 AM	0	0	1	3	0	2	0	12	1	0	0	2	0	0	0	0	17	1	0	0	0	0	1	0	0
07:10 AM	0	0	0	1	0	1	2	16	0	1	1	2	0	0	0	0	14	2	0	0	0	1	0	0	0
07:15 AM	0	1	2	1	0	2	0	16	1	0	4	0	0	0	0	0	19	1	0	0	0	0	0	0	0
07:20 AM	0	1	5	1	0	2	1	15	1	0	0	6	0	0	0	1	14	0	0	0	0	1	2	0	0
07:25 AM	0	0	1	6	0	4	1	25	0	0	4	3	0	0	0	0	16	1	0	0	0	1	1	0	0
07:30 AM	0	0	7	3	0	4	1	28	0	0	2	2	0	1	0	0	30	2	1	0	1	1	0	0	0
07:35 AM	0	0	8	0	0	5	1	26	1	1	2	6	1	0	0	0	26	1	0	0	0	3	1	0	0
07:40 AM	0	1	5	3	0	2	0	32	1	0	1	3	1	1	0	0	24	4	0	0	1	1	3	0	0
07:45 AM	0	2	1	4	0	5	3	41	1	0	2	2	0	0	0	0	27	6	0	0	0	1	0	0	0
07:50 AM	1	1	4	2	0	5	2	36	3	0	1	4	0	0	0	0	18	0	0	0	0	1	0	0	0
07:55 AM	0	0	3	2	0	3	0	38	0	0	4	5	0	1	0	0	22	2	0	0	0	4	0	1	0
08:00 AM	0	2	4	6	0	5	1	35	1	1	2	4	1	1	0	0	25	8	0	0	0	0	2	0	0
08:05 AM	0	1	1	0	0	9	2	20	0	1	4	5	2	0	0	2	34	2	1	0	0	2	2	0	0
08:10 AM	0	2	2	1	0	5	0	30	0	0	3	6	1	0	0	1	34	1	0	0	0	0	1	0	0
08:15 AM	3	3	4	3	0	3	1	37	1	0	1	1	2	0	0	0	29	2	0	0	1	1	1	0	0
08:20 AM	0	0	3	1	1	4	1	22	3	0	4	2	2	0	0	1	17	2	0	0	0	0	0	0	0
08:25 AM	1	1	3	5	0	6	2	21	0	0	1	3	0	2	0	1	23	0	1	0	0	1	1	0	0
08:30 AM	1	1	7	1	0	4	2	28	0	0	2	7	2	1	0	2	23	1	0	0	0	0	0	0	0
08:35 AM	0	0	5	2	0	4	2	31	1	0	2	9	1	0	0	1	18	1	2	0	0	0	1	0	0
08:40 AM	0	3	9	3	0	4	0	25	0	0	3	1	0	0	0	1	21	1	0	0	0	0	0	0	0
08:45 AM	0	0	7	3	0	6	2	22	1	0	6	5	0	1	0	0	20	1	0	0	1	1	0	0	0
08:50 AM	2	1	3	2	0	5	1	28	1	0	2	4	0	2	0	0	20	2	1	0	1	0	0	0	0
08:55 AM	2	0	1	2	0	5	0	22	1	0	1	3	1	2	0	1	30	1	0	0	0	1	1	0	0
Total	10	20	88	57	1	96	25	616	18	4	54	85	14	12	0	11	527	43	6	0	5	20	17	1	0

Peak Hour: 7:30 AM - 8:30 AM

Peak 15: 8:00 AM - 8:15 AM

PHF: 0.922161

LOCATION: 57 - W Portal Ave & Ulloa St

QC JOB #: 15059702

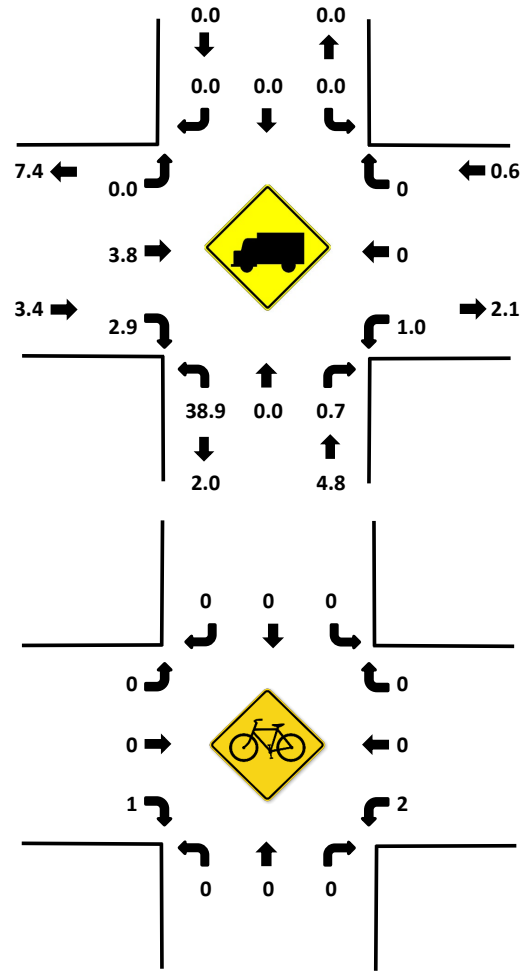
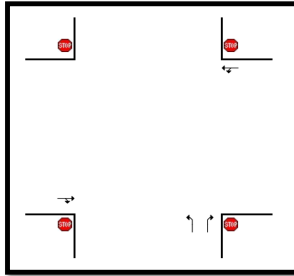
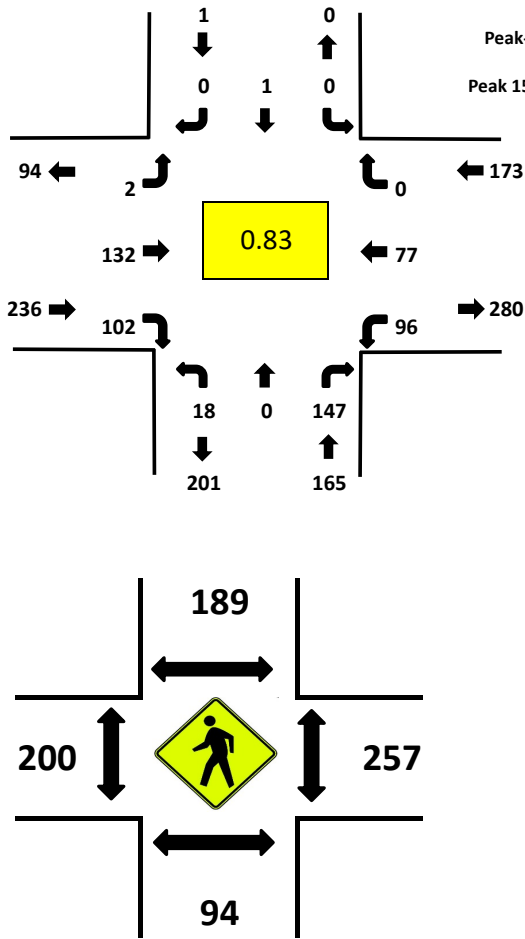
CITY/STATE: San Francisco, CA



DATE: 10/23/2019

Peak-Hour: 7:40 AM - 8:40 AM

Peak 15-Min: 8:00 AM - 8:15 AM



Count Period	57 - W Portal Ave Northbound				57 - W Portal Ave Southbound				Ulloa St Eastbound				Ulloa St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	1	0	2	0	0	0	0	0	0	3	4	0	2	2	0	0	14	
7:05 AM	2	0	2	0	0	0	0	0	0	3	4	0	2	1	0	0	14	
7:10 AM	1	0	8	0	0	0	0	0	0	5	6	0	7	3	0	0	30	
7:15 AM	0	0	10	0	0	0	0	0	0	4	5	0	4	2	0	0	25	
7:20 AM	0	0	9	0	0	0	0	0	0	1	1	0	0	2	0	0	13	
7:25 AM	0	0	7	0	0	0	0	0	0	0	17	0	0	0	0	0	24	
7:30 AM	1	0	20	1	0	0	0	0	0	2	4	0	5	3	0	0	36	
7:35 AM	0	0	9	0	0	0	0	0	0	11	5	0	9	3	0	0	37	
7:40 AM	2	0	5	0	0	0	0	0	0	13	7	0	5	4	0	0	36	
7:45 AM	2	0	8	0	0	0	0	0	0	17	9	0	9	7	0	0	52	
7:50 AM	1	0	15	1	0	0	0	0	0	8	6	0	5	6	0	0	42	
7:55 AM	0	0	16	2	0	0	0	0	0	9	4	1	12	10	0	0	54	377
8:00 AM	2	0	10	0	0	1	0	0	0	15	10	0	6	9	0	0	53	416
8:05 AM	0	0	18	0	0	0	0	0	0	11	10	0	14	7	0	0	60	462
8:10 AM	3	0	14	0	0	0	0	0	0	18	11	0	10	4	0	0	60	492
8:15 AM	2	0	11	0	0	0	0	0	0	7	12	0	7	6	0	1	46	513
8:20 AM	0	0	10	0	0	0	0	0	0	8	9	1	7	5	0	0	40	540
8:25 AM	1	0	14	0	0	0	0	0	0	11	10	0	9	6	0	0	51	567
8:30 AM	0	0	9	0	0	0	0	0	0	5	7	0	7	6	0	0	34	565
8:35 AM	2	0	17	0	0	0	0	0	0	10	7	0	4	7	0	0	47	575
8:40 AM	1	0	4	1	0	0	0	0	0	4	5	0	7	8	0	0	30	569
8:45 AM	1	0	6	0	0	0	0	0	0	12	12	0	8	7	0	0	46	563
8:50 AM	0	0	11	0	0	0	0	0	0	8	11	0	4	7	0	0	41	562
8:55 AM	0	0	13	1	0	0	0	0	0	8	12	0	6	4	0	0	44	552
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	20	0	168	0	0	4	0	0	0	176	124	0	120	80	0	0	692	
Heavies	12	0	0		0	0	0		0	4	4		0	0	0		20	
Peds		80				216				232				296			824	
2HR Bikes	0	0	1		0	0	0		0	0	1		5	1	0		8	

LOCATION: 60 - W Portal Ave & Vicente St

QC JOB #: 15059708

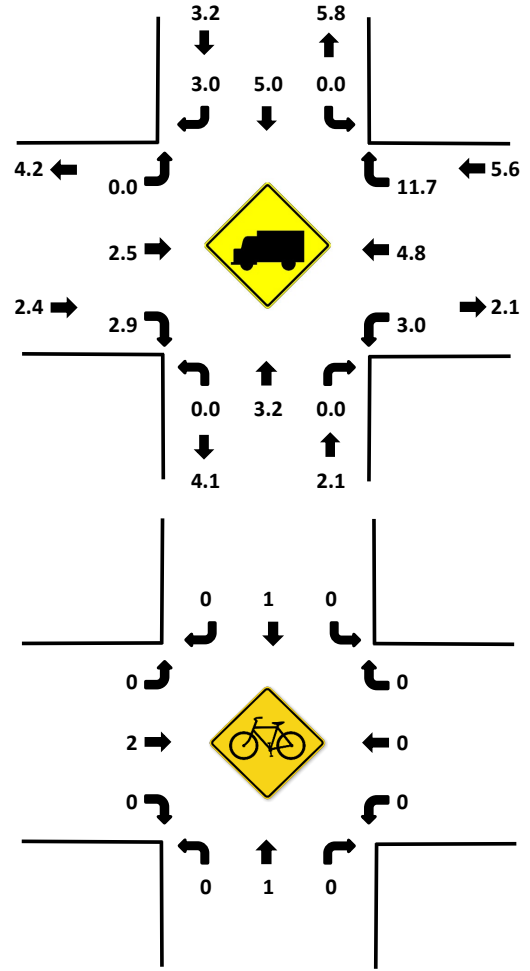
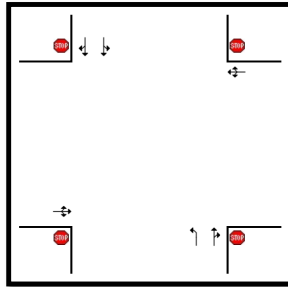
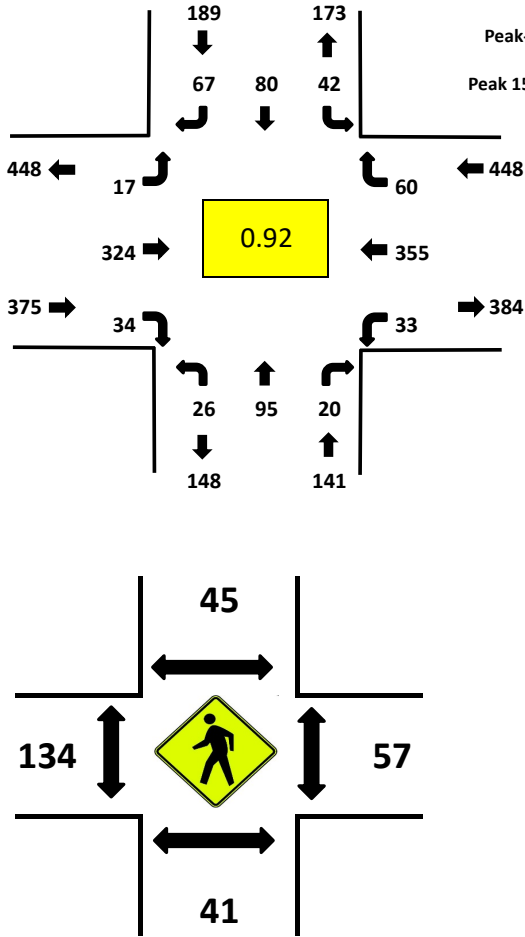
CITY/STATE: San Francisco, CA



DATE: 10/23/2019

Peak-Hour: 7:30 AM - 8:30 AM

Peak 15-Min: 8:05 AM - 8:20 AM



Count Period	60 - W Portal Ave Northbound				60 - W Portal Ave Southbound				Vicente St Eastbound				Vicente St Westbound				Total	Hourly Totals
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
7:00 AM	0	2	6	0	2	5	0	0	1	8	3	1	3	9	2	0	42	
7:05 AM	3	2	0	1	1	3	5	0	1	12	1	0	1	9	2	0	41	
7:10 AM	1	9	0	0	2	4	5	0	2	14	3	0	1	12	3	0	56	
7:15 AM	1	6	0	0	3	5	2	0	0	15	5	0	1	17	2	0	57	
7:20 AM	2	6	3	0	0	1	1	0	1	16	2	0	2	18	2	0	54	
7:25 AM	1	11	3	1	6	2	2	0	1	21	2	0	5	24	4	0	83	
7:30 AM	2	11	2	0	1	5	1	0	4	26	1	0	3	28	5	0	89	
7:35 AM	4	4	4	0	4	7	3	0	2	31	2	0	3	28	5	0	97	
7:40 AM	1	3	1	1	4	4	3	0	1	26	4	0	0	33	1	0	82	
7:45 AM	3	9	1	0	0	3	10	0	2	24	3	0	1	36	3	0	95	
7:50 AM	3	9	1	0	4	5	3	0	1	21	3	0	4	37	9	0	100	
7:55 AM	1	9	2	0	2	7	5	0	0	23	4	0	5	36	6	0	100	896
8:00 AM	2	5	1	0	5	3	8	1	1	29	3	0	4	33	3	0	98	952
8:05 AM	1	13	1	0	3	8	10	1	1	32	2	0	1	19	10	0	102	1013
8:10 AM	1	8	1	0	5	6	10	0	0	33	4	0	6	24	6	0	104	1061
8:15 AM	3	7	2	0	5	8	4	0	3	28	4	1	2	37	5	0	109	1113
8:20 AM	1	9	2	0	3	15	5	0	1	26	1	0	2	24	4	0	93	1152
8:25 AM	3	8	2	0	4	9	5	0	0	25	3	0	2	20	3	0	84	1153
8:30 AM	2	9	1	0	5	5	6	0	1	20	3	0	4	25	4	0	85	1149
8:35 AM	3	9	4	0	2	2	4	0	4	23	1	0	4	32	5	0	93	1145
8:40 AM	3	6	7	0	3	8	2	0	0	20	2	0	4	26	2	0	83	1146
8:45 AM	6	4	4	0	2	9	9	0	2	21	5	0	4	16	0	0	82	1133
8:50 AM	2	10	6	0	7	7	6	0	1	17	6	0	3	28	7	0	100	1133
8:55 AM	1	7	1	0	5	7	6	0	0	28	3	0	6	20	4	0	88	1121
Peak 15-Min Flowrates	NB				SB				EB				WB				Total	
	L	T	R	U	L	T	R	U	L	T	R	U	L	T	R	U		
All Vehicles	20	112	16	0	52	88	96	4	16	372	40	4	36	320	84	0	1260	
Heavies	0	4	0		0	0	0		0	8	0		0	28	12		52	
Peds		44				44				120				72			280	
2HR Bikes	0	1	0		0	4	0		0	5	0		0	0	1		11	