

Report #20: Stanford University Annual Traffic Monitoring Report 2020

For
County of Santa Clara

Appendices

Appendix A	Detailed Daily Cordon Counts
Appendix B	Detailed Daily Parking Lot Counts (data not collected in 2020)
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List of Acronyms and Abbreviations

County	County of Santa Clara
EIR	Environmental Impact Report
GUP	General Use Permit



FOREWORD FROM THE COUNTY OF SANTA CLARA PLANNING OFFICE

Background

The purpose of this report is to compare the volumes of traffic entering and exiting the Stanford campus during the inbound AM commute peak hour and the outbound PM commute peak hour respectively, to a traffic baseline. This comparison is performed on an annual basis in the spring and the fall of each year. The requirements for establishing the traffic baseline and performing annual comparisons to the baseline are contained in the December 2000 Stanford Community Plan/General Use Permit (GUP)/Environmental Impact Report (EIR) and in the 2000 Stanford GUP. These documents can be reviewed at the County of Santa Clara (County) website or at the County Planning Office. Essentially, Stanford is required to attain a “no net new commute trips” standard, as defined in the 2000 GUP and EIR.

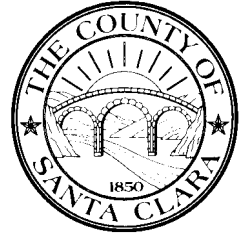
The Process

Following the adoption of the GUP by the County Board of Supervisors in December 2000, the County Planning Office selected AECOM to conduct the monitoring process outlined in the conditions of approval. Because of the type of data to be collected (particularly license plate numbers), the data could not be collected until after the start of daylight-saving time in the spring of 2001. The data collection involved three 2-week intervals in the spring and one 2-week interval in the fall of 2001 for a total of 8 weeks of count data.

Condition of Approval G.7. in the 2000 GUP outlines the process for establishing the baseline counts and for continuing monitoring in subsequent years. The approved process is summarized as follows:

- Weekday peak-hour traffic is counted at least three times per year for a 2-week interval each time. The established methodology dictates that eight weeks of counts are averaged to show the annual traffic level.
- All counts are recorded at 16 campus entry and exit points, forming a cordon around the campus.
- License plate numbers are recorded for each vehicle entering and exiting, to determine the volume of non-campus traffic.
- Cordon volumes are adjusted to account for parking lots within the cordon used by the hospital (these volumes are subtracted from the cordon line counts) and parking lots outside the cordon used by the University (these volumes are added to the cordon line counts).
- A peak hour is then established for the campus based on the cordon line counts, adjusted for cut-through traffic and parking.

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Condition of Approval G.6. in the 2000 GUP defines the peak commute directions as entering the campus in the morning peak commute hour and leaving the campus in the evening commute hour. The peak AM and PM commute hours are defined as the 1-hour intervals of time with the highest volume of traffic between 7 AM and 9 AM and between 4 PM and 6 PM, respectively, as defined by the counts. Therefore, the two peak hours are considered to be independent events. For example, an increase in AM peak traffic beyond the 1 percent trigger for 2 out of 3 years would trigger the additional elements of the monitoring program without a change, or even with a decrease, in the PM peak traffic. Also, a significant increase during 1 year in the AM and a sufficient increase (beyond the 1 percent trigger) in the PM for the following year would not trigger additional mitigation. Detailed information on the count results for each year from 2001 to the present is presented in the Summary and Comparison of Previous Reports section of this report.

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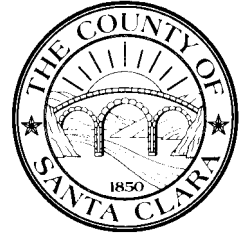
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PHONE: (408) 299-5770 **WEBSITE:** www.sccplanning.org



INTRODUCTION

This report presents the traffic data collected at Stanford University by AECOM during the 2020 monitoring interval. This year was highly unusual due to the 2020 COVID-19 pandemic and the resulting shelter-in-place order, which was issued in March of 2020 and continued through the year. This order shut down the Stanford campus to limit the spread of the virus. As a result, the spring counts were cancelled, and the fall counts only included the raw traffic volumes at the campus perimeter.

Under normal circumstances, traffic volumes are collected for 6 weeks during the spring of each year and 2 weeks during the fall of each year. The data include vehicle counts at all access points to the campus and parking lots. Parking lot counts and cut-through percentages are used to adjust the raw traffic counts to determine the total amount of peak-hour traffic generated by Stanford University. In the methodology used from 2001 until the spring of 2018, the parking data would provide information on the quantity of campus traffic that parked outside of the count area (to be added to the cordon counts) and hospital traffic parking inside the count area (subtracted from the cordon counts). License plate survey results were used to calculate the amount of traffic that cuts through the campus, which was not considered University-generated traffic. However, because Stanford University changed its system of parking permits in 2018, it was necessary to change the parking permit data collection methodology. The originally established and revised data collection methodologies are described in greater detail in Task 1. A description of the data analysis procedures is presented in Task 2.

In addition, the data collected in 2020 cannot be compared to the baseline counts collected in calendar year 2001, as it usually is, because no adjustment data were collected this year due to the special circumstances. Only raw traffic volumes are available, which were compared with historic raw traffic volumes over the years instead of against the baseline.

Before the 2020 COVID-19 shelter-in-place order began, the project was planned to proceed as usual. The spring counts were scheduled for April 6 through May 18, 2020, and the fall counts were set for 2 weeks (exact dates to be determined). However, in the spring of 2020, the campus was closed to all students as described on Stanford's two memos dated June 30, 2020 and September 4, 2020 (see appendix F).

Due to the highly unusual situation in 2020, the Stanford traffic monitoring project could not be conducted in the spring of 2020. In addition, the 2-week fall 2020 count was modified to only included raw traffic counts. The 2000 GUP Condition G.7.a. requires traffic counts for a minimum of three times per year for an interval of 2 weeks each time. Since 2003, the established methodology for traffic monitoring program is 6 weeks in the spring and two weeks in the fall for a total of 8 weeks of count data. However, given the pandemic, the County determined that 2 weeks of raw traffic counts would be sufficient to demonstrate that traffic volumes due to the pandemic and shelter in place requirements were well below the historic traffic volumes from 2001. This limited data collection is assumed to be temporary, and the Stanford Monitoring Program anticipates returning to the usual 8 weeks of counts distributed between the spring and fall for the 2021 monitoring year.



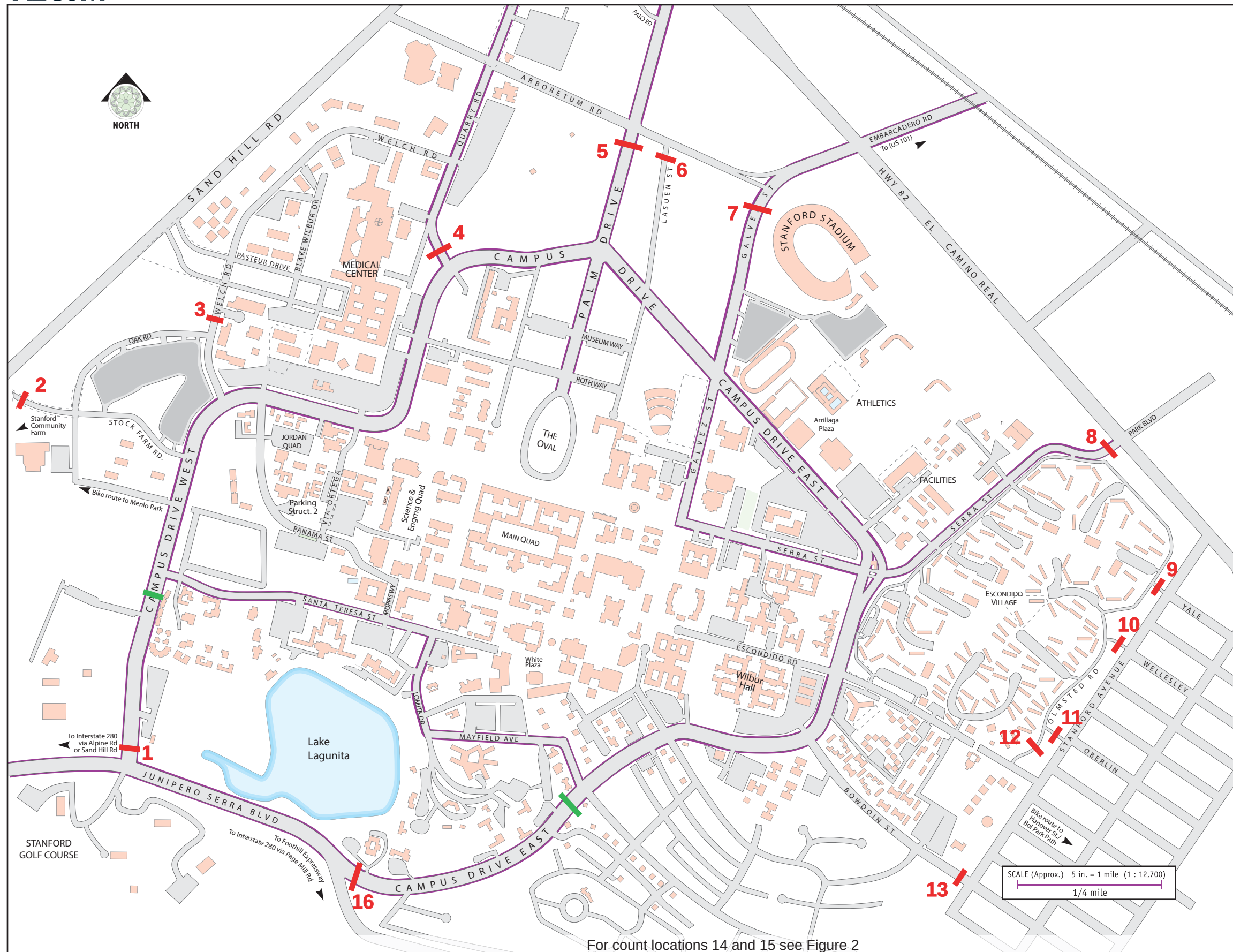
Task 1.0 Traffic Monitoring Data Collection Methodology

Data collection is a critical component of the traffic monitoring program. The following work elements are conducted to collect relevant traffic data for the monitoring program.

Task 1.1 Machine Cordon Line Traffic Counts

Directional traffic counts are typically collected at Stanford University for 8 weeks each calendar year on each of the 16 roadways that provide access to and from the campus. The locations of the 16 cordon counts are listed below and shown graphically in Figure 1 and Figure 2.

1. Campus Drive West, north of Junipero Serra Boulevard
2. Stock Farm Road, east of Sand Hill Road
3. Welch Road, north of Oak Road
4. Quarry Road, north of Campus Drive West
5. Palm Drive, south of Arboretum Road
6. Lasuen Street, south of Arboretum Road
7. Galvez Street, south of Arboretum Road
8. Serra Street, southwest of El Camino Real
9. Yale Street, west of Stanford Avenue
10. Wellesley Street, west of Stanford Avenue
11. Oberlin Street, west of Stanford Avenue
12. Olmsted Road, north of Escondido Road
13. Bowdoin Street, west of Stanford Avenue
14. Raimundo Way, west of Stanford Avenue
15. Santa Maria Avenue, north of Junipero Serra Boulevard
16. Campus Drive East, east of Junipero Serra Boulevard



Cordon Count Locations

1. Campus Drive West north of Junipero Serra Blvd.
2. Stock Farm Road east of Sand Hill Road
3. Welch Road north of Oak Road
4. Quarry Road north of Campus Drive
5. Palm Drive south of Arboretum Road
6. Lasuen Street south of Arboretum Road
7. Galvez Street south of Arboretum Road
8. Serra Street southwest of El Camino Real
9. Yale Street west of Stanford Avenue
10. Wellesley Street west of Stanford Avenue
11. Oberlin Street west of Stanford Avenue
12. Olmsted Road north of Escondido Road
13. Bowdoin west of Stanford Avenue
14. Raimundo west of Stanford Avenue
15. Santa Maria Avenue north of Junipero Serra Blvd.
16. Campus Drive East east of Junipero Serra Blvd.

NOTES

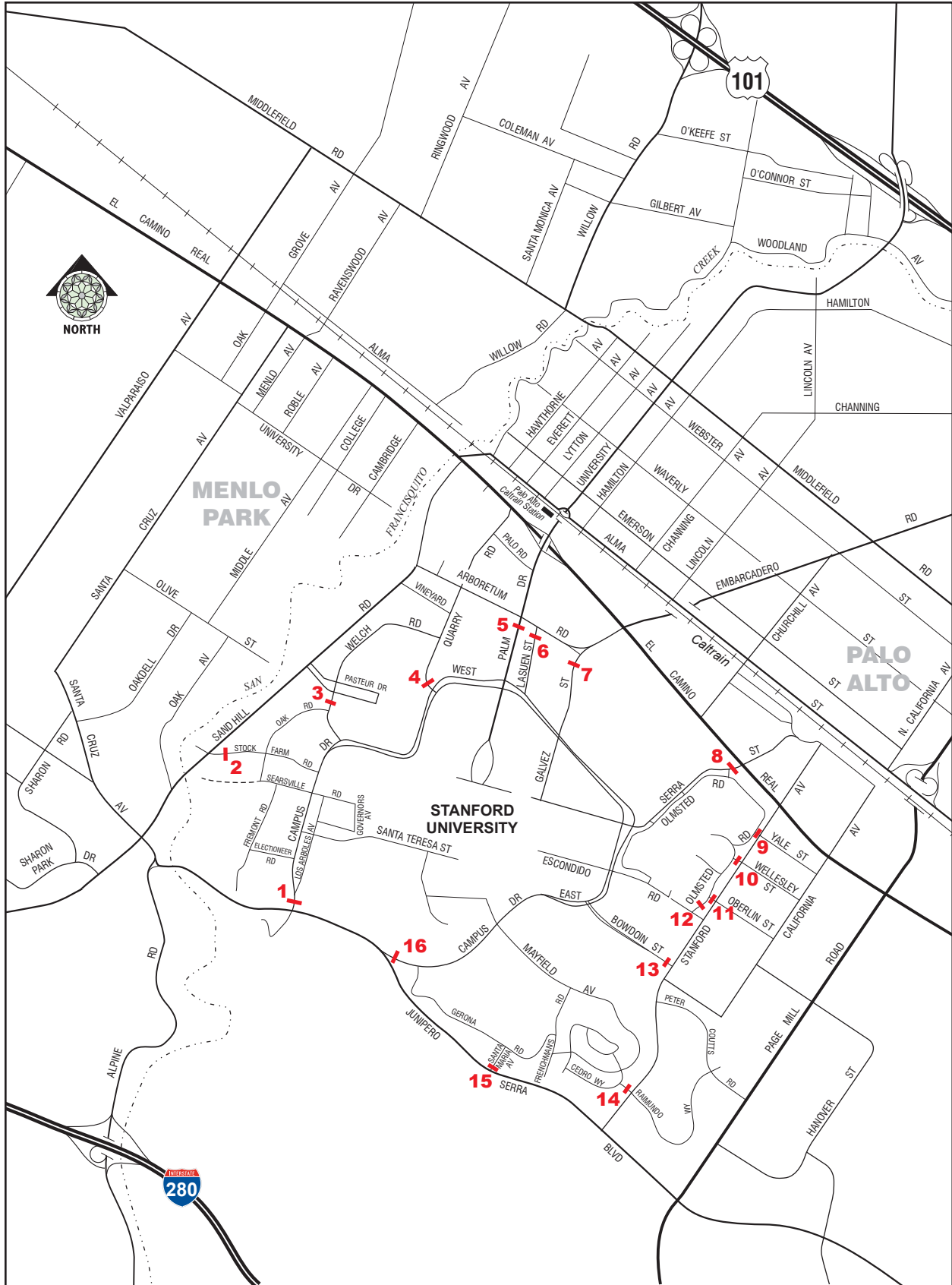
License plate survey for Location 1 and Location 16 shifted for more accurate recording. Cordon tube counts continued at campus boundary.

Escondido Drive no longer continuous street from Campus Drive East to Stanford Avenue.

Lasuen Street has been converted into one-way northbound roadway from Campus Drive to Arboretum Road.

SCALE (Approx.) 5 in. = 1 mile (1 : 12,700)
1/4 mile

For count locations 14 and 15 see Figure 2



06/15/12

STANFORD UNIVERSITY TRAFFIC MONITORING REPORT

Figure 2
DAILY MACHINE CORDON COUNT LOCATIONS

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The detailed traffic counts at the 16 cordon locations over the 2 weeks of counts conducted in 2020 are presented in Appendix A and are summarized in Table 1. Table 1 shows the AM inbound and PM outbound peak-hour volumes for each traffic-monitoring day. As indicated in Table 1, the AM peak hour in 2020 most-frequently occurred from 7:30 to 8:30, which is 30 minutes earlier than previous years' usual observations. The PM peak hour most frequently occurred from 4:15 to 5:15, which is 45 minutes earlier than previous years' usual observations.

Table 1 2020 Raw Traffic Count Summary

Date	AM Inbound			PM Outbound		
	Weather	Volume	Period	Weather	Volume	Period
Week 1						
September 28, 2020	Cloudy	1,741	7:30 to 8:30	Cloudy	1,860	4:30 to 5:30
September 29, 2020	Cloudy	1,710	7:45 to 8:45	Partly Cloudy	2,038	4:45 to 5:45
September 30, 2020	Smoke	1,708	7:30 to 8:30	Smoke	1,967	4:45 to 5:45
October 1, 2020	Smoke	1,771	7:30 to 8:30	Smoke	2,024	4:30 to 5:30
October 2, 2020	Smoke	1,644	7:30 to 8:30	Smoke	1,868	4:15 to 5:15
Week 2						
October 5, 2020	Fog	1,734	7:45 to 8:45	Cloudy	1,964	4:45 to 5:45
October 6, 2020	Cloudy	1,763	7:30 to 8:30	Mostly Cloudy	2,223	4:00 to 5:00
October 7, 2020	Haze	1,844	8:00 to 9:00	Smoke	2,369	4:15 to 5:15
October 8, 2020	Cloudy	1,864	7:30 to 8:30	Cloudy	2,128	4:15 to 5:15
October 9, 2020	Cloudy	1,690	7:30 to 8:30	Mostly Cloudy	2,004	4:15 to 5:15
Average		1,747			2,045	

The unadjusted AM inbound traffic volumes ranged from a low of 1,644 on Friday, October 2, to a high of 1,864 on Thursday, October 8. Two weeks of data in the fall of 2020 found an average AM peak-hour traffic volume of 1,747. This is compared with the AM peak-hour average of 4,091 from the previous 19 years of data (presented in Appendix F). The PM peak-hour traffic volumes ranged from a low of 1,860 on Monday, September 28, to a high of 2,369 on Wednesday, October 7. Two weeks of data in the fall of 2020 found an average PM peak-hour traffic volume of 2,045. This is compared with the PM peak-hour average of 4,355 from the previous 19 years of data (see Appendix F).

COVID-19 shelter-in-place orders resulted in lower traffic region-wide but even more so in the South Bay near the Stanford campus. Data collected by the Metropolitan Transportation Commission, in September 2020 indicate that traffic on the San Mateo-Hayward Bridge was at 64 percent of the previous year; traffic on the Dumbarton Bridge was just 56 percent. Other Bay Area bridges such as the Bay Bridge were generally at about 85 percent.ⁱ

California experienced several significant wildfires that caused the Bay Area to have bad air quality during the fall of 2020 including during the 2-week count period. Residents were encouraged to

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stay indoors. These conditions could have impacted the traffic counts; commuters who would walk or bicycle to work might have been compelled to drive instead, and commuters who normally drove to work might have instead stayed home because of the hazardous outdoor conditions. The data appear to support the former pattern; traffic volumes were slightly higher on smokey days, particularly on Wednesday October 7, 2020.

For the most part, the COVID public health restrictions were in place at Stanford University, with very few events attracting travelers. Traffic volumes appeared to be about half of the levels observed in previous years.

Task 1.2 Parking Lot Driveway Counts

This task was not performed in 2020 due to the COVID-19 pandemic conditions and shelter-in-place orders. The driveway count locations are presented below and in Figure 3. Traffic would ordinarily be counted by direction into and out of these parking lots during the entire count interval. Appendix B would normally include the detailed count sheets for the driveway traffic at these lots but is omitted in this 2020 report because the data were not collected due to the COVID-19 pandemic conditions. Table 2 summarizes the inventory of parking facilities relevant to this monitoring effort.

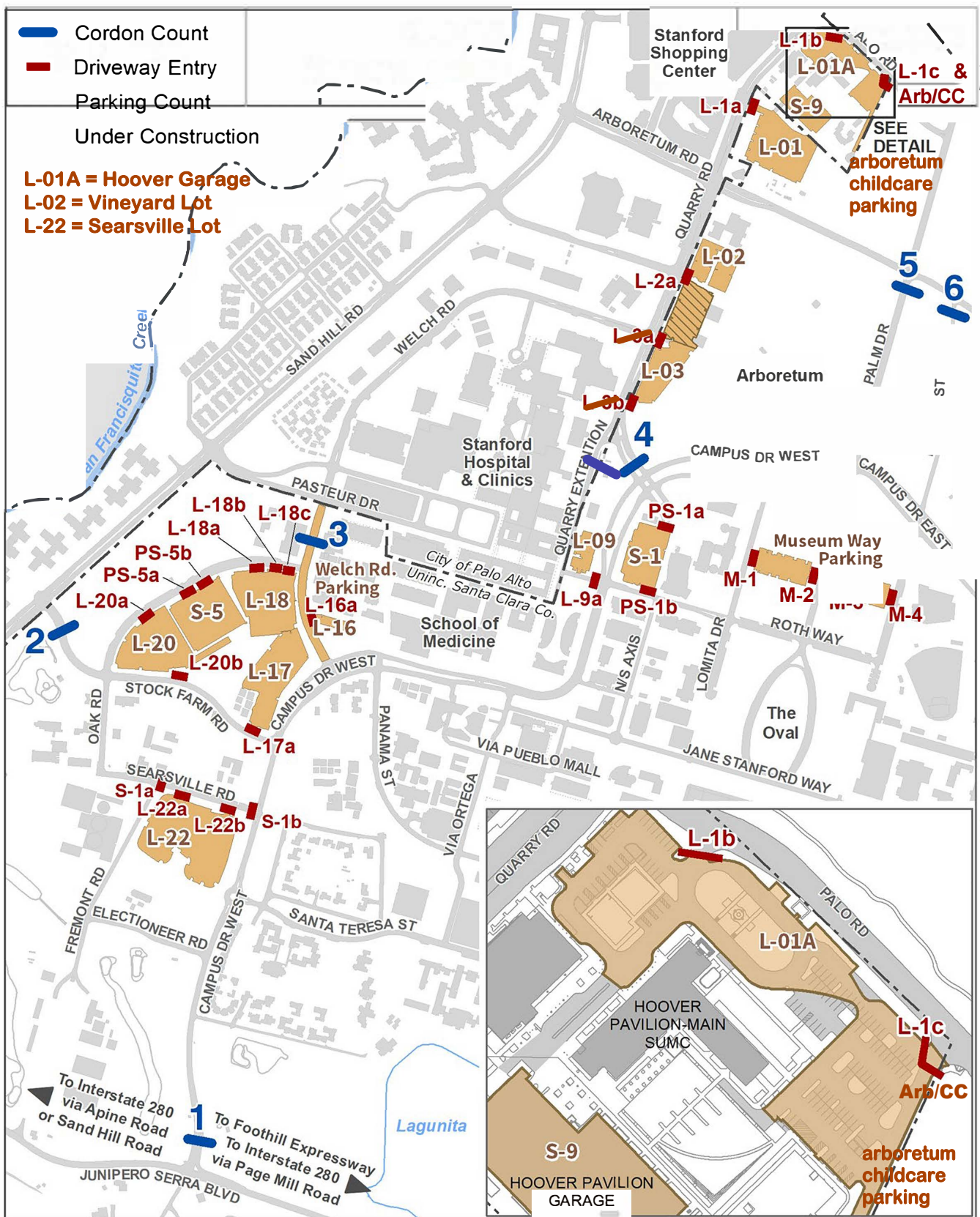


Figure 3.

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Table 2 List of Parking Facilities

2019 Name	Called in Previous Reports	Cordon Location	Description
L-1	L-1	Outside	Rectangular lot by Quarry Road and Arboretum Road Four count locations at access driveways
L-1A	L-1A	Outside	An n-shaped lot around the Medical Plaza by Quarry Road and Palo Road
Arb/CC	Arb/CC	Outside	Arboretum/Childcare is a linear cul-de-sac that has parking spaces along its sides
L-16	L-5	Inside	Medical school office lot with 42 spaces at Welch Road and Campus Drive East
L-17	L-5 L-5d = L-17a	Inside	West of Campus Drive west between Stock Farm and Welch
L-18	L-5 L-5 a,b,c	Inside	Off the corner of Welch and Oak Roads
L-20	L-6 a,b	Inside	At the northeastern corner of Oak and Stock Farm Roads
L-22	L-22	Inside	Large temporary lot off Searsville between Campus Drive West and Fremont Road known as "Searsville Lot"
L-9	L-3	Inside	Northwestern corner of Campus Drive West and Roth Way with the Quarry Extension to the west
Museum Lots	New lots not included in previous adjustments	Inside	Museum lots on Museum Way
Oak Road and Welch Road	Oak Road and Welch Road	Inside	On-street parking on Welch and Oak Roads
PS-1	PS-1	Inside	Parking Structure 1 north of Roth Way and east of Campus Drive West known as "Roth Way Garage"
PS-5	PS-3	Inside	Southeast of Oak Road between L-20 and L-18 known as "Stock Farm Garage"
PS-9	PS-9	Outside	Off Quarry Road surrounded by L-1 known as "Hoover Pavilion Garage"
L-2	L-2	Outside	Quarry Lot, east of Quarry Road between Vineyard and Arboretum, known as "Vineyard Lot"



Task 1.3 Parking Permit Scanning/Count

This task was not performed in 2020 due to the COVID-19 pandemic conditions. When this adjustment is resumed, Stanford, the County and AECOM will need to work together to integrate changes to this data collection effort as outlined in the 2019 Traffic Monitoring Report's Appendix F.

Task 1.4 License Plate Survey

This task was not performed in 2020 due to the COVID-19 pandemic conditions. The purpose of the license plate survey is to identify vehicles that are only passing through the Stanford campus, not beginning or ending their trip on campus. License plate numbers are recorded for vehicles entering and leaving each cordon location. Vehicles that enter the cordon and leave through any gateway within an interval of 20 minutes are considered to be "cut-through" vehicles. Surveys are performed one day each week for both of the peak hours. Appendix E would normally display the raw data.

Given the increase in commuters traveling to work using a Transportation Network Company such as Uber or Lyft, a memo forthcoming in 2021 will examine this methodology to consider whether these vehicles are in fact "cutting through" and not dropping off passengers (thus, adding cars to the road as the result of Stanford campus commuters). A memo forthcoming in 2021 will include a complete analysis, with recommendations for next steps. Discussions among Stanford, the County and AECOM will provide all parties with an opportunity to review and provide input; the recommendations are still pending at the time of this report.

Task 2.0 Traffic Monitoring Data Analysis

Task 2.1 Daily Cordon Count Spreadsheets

The first step of this task is to enter the raw cordon count numbers into spreadsheets. Two spreadsheets—one for the AM peak hours and one for the PM peak hours—are created for each weekday that a cordon count was conducted. Each spreadsheet shows the hourly AM inbound and PM outbound vehicles passing all 16 cordon locations during five sets of four 15-minute increments. For the AM peak, the hours are 7:00 to 8:00, 7:15 to 8:15, 7:30 to 8:30, 7:45 to 8:45, and 8:00 to 9:00. For the PM peak, the hours are 4:00 to 5:00, 4:15 to 5:15, 4:30 to 5:30, 4:45 to 5:45, and 5:00 to 6:00. Normally, cordon counts are collected for 8 weeks, and there are 80 daily cordon count spreadsheets (40 AM and 40 PM). This year, due to the COVID-19 pandemic, the program only collected 2 weeks of counts, resulting in 20 daily cordon count spreadsheets. Appendix C presents these spreadsheets.

Task 2.2 Daily Parking Spreadsheets (Data not collected in 2020)

This task was not performed in 2020 due to the COVID-19 pandemic conditions. Ordinarily, the number of vehicles entering and exiting the parking lots and garages in the vicinity of the Stanford Medical Center would be monitored during the 6-week period in the spring and the 2-week period in the fall. The AM inbound and PM outbound volumes at all lot entrances would be entered into

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spreadsheets for the AM and PM peak hours of each day, as described for the cordon counts in Task 2.1. All daily parking spreadsheets would normally be included in Appendix D but for this 2020 report, Appendix D only represents a placeholder for this data which was not collected.

Task 2.3 Adjustments for Parking and Cut-Through Vehicles (Data not collected in 2020)

This task was not performed in 2020 due to the COVID-19 pandemic conditions.

Table 3 would normally display the total of 80 cordon counts adjusted for parking lot factors and cut-through traffic, with the average AM inbound and PM outbound traffic volumes and the peak-hour time intervals. Because these data are unavailable this year, only a placeholder for Table 3 is included. Table 4 shows the traffic data collected in the 2001 baseline Stanford Traffic Monitoring Program, including the baseline average and the 90 percent confidence interval.

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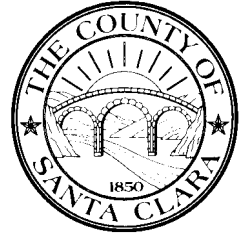
Table 3 2020 Adjusted Traffic Totals

Data not available in 2020

Table 4 2001 Baseline Adjusted Traffic Totals

Date	AM Inbound		PM Outbound	
	Volume	Hour	Volume	Hour
Week 1				
April 2, 2001	3,036	7:45 to 8:45	3,323	5:00 to 6:00
April 3, 2001	3,059	7:45 to 8:45	3,285	4:45 to 5:45
April 4, 2001	2,884	8:00 to 9:00	3,334	4:45 to 5:45
April 5, 2001	3,000	7:45 to 8:45	3,216	5:00 to 6:00
April 6, 2001	2,610	8:00 to 9:00	3,092	4:45 to 5:45
Week 2				
April 9, 2001	3,265	8:00 to 9:00	3,329	5:00 to 6:00
April 10, 2001	3,141	8:00 to 9:00	3,362	5:00 to 6:00
April 11, 2001	3,107	8:00 to 9:00	3,473	4:45 to 5:45
April 12, 2001	3,081	8:00 to 9:00	3,397	5:00 to 6:00
April 13, 2001	2,973	8:00 to 9:00	3,413	4:45 to 5:45
Week 3				
April 23, 2001	3,285	7:45 to 8:45	3,311	4:30 to 5:30
April 24, 2001	3,322	7:45 to 8:45	3,281	5:00 to 6:00
April 25, 2001	3,186	7:30 to 8:30	3,326	4:45 to 5:45
April 26, 2001	3,129	7:45 to 8:45	3,286	5:00 to 6:00
April 27, 2001	2,723	8:00 to 9:00	3,154	4:45 to 5:45
Week 4				
April 30, 2001	2,502	7:30 to 8:30	2,681	4:15 to 5:15
May 1, 2001	2,826	7:45 to 8:45	2,967	5:00 to 6:00
May 2, 2001	2,742	7:45 to 8:45	2,912	5:00 to 6:00
May 3, 2001	2,632	8:00 to 9:00	2,861	5:00 to 6:00
May 4, 2001	2,595	8:00 to 9:00	2,744	4:45 to 5:45
Week 5				
May 7, 2001	3,604	8:00 to 9:00	3,410	4:45 to 5:45
May 8, 2001	3,559	8:00 to 9:00	3,422	5:00 to 6:00
May 9, 2001	3,455	8:00 to 9:00	3,326	5:00 to 6:00
May 10, 2001	3,478	8:00 to 9:00	3,396	4:45 to 5:45
May 11, 2001	3,393	8:00 to 9:00	3,090	5:00 to 6:00
Week 6				

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Date	AM Inbound		PM Outbound	
	Volume	Hour	Volume	Hour
May 14, 2001	3,479	8:00 to 9:00	3,235	4:45 to 5:45
May 15, 2001	3,756	8:00 to 9:00	3,450	5:00 to 6:00
May 16, 2001	3,830	8:00 to 9:00	3,374	5:00 to 6:00
May 17, 2001	3,533	8:00 to 9:00	3,456	5:00 to 6:00
May 18, 2001	3,246	8:00 to 9:00	3,386	4:45 to 5:45
Week 7				
October 22, 2001	3,221	8:00 to 9:00	3,505	5:00 to 6:00
October 23, 2001	3,835	8:00 to 9:00	3,805	5:00 to 6:00
October 24, 2001	3,550	8:00 to 9:00	3,959	5:00 to 6:00
October 25, 2001	3,908	7:45 to 8:45	3,991	5:00 to 6:00
October 26, 2001	3,371	8:00 to 9:00	4,072	4:45 to 5:45
Week 8				
October 29, 2001	4,241	8:00 to 9:00	4,115	5:00 to 6:00
October 30, 2001	4,251	8:00 to 9:00	4,217	5:00 to 6:00
October 31, 2001	4,139	8:00 to 9:00	4,394	5:00 to 6:00
November 1, 2001	4,037	8:00 to 9:00	4,193	5:00 to 6:00
November 2, 2001	3,789	7:45 to 8:45	4,277	5:00 to 6:00
Average	3,319		3,446	
90% confidence interval	± 120		± 109	

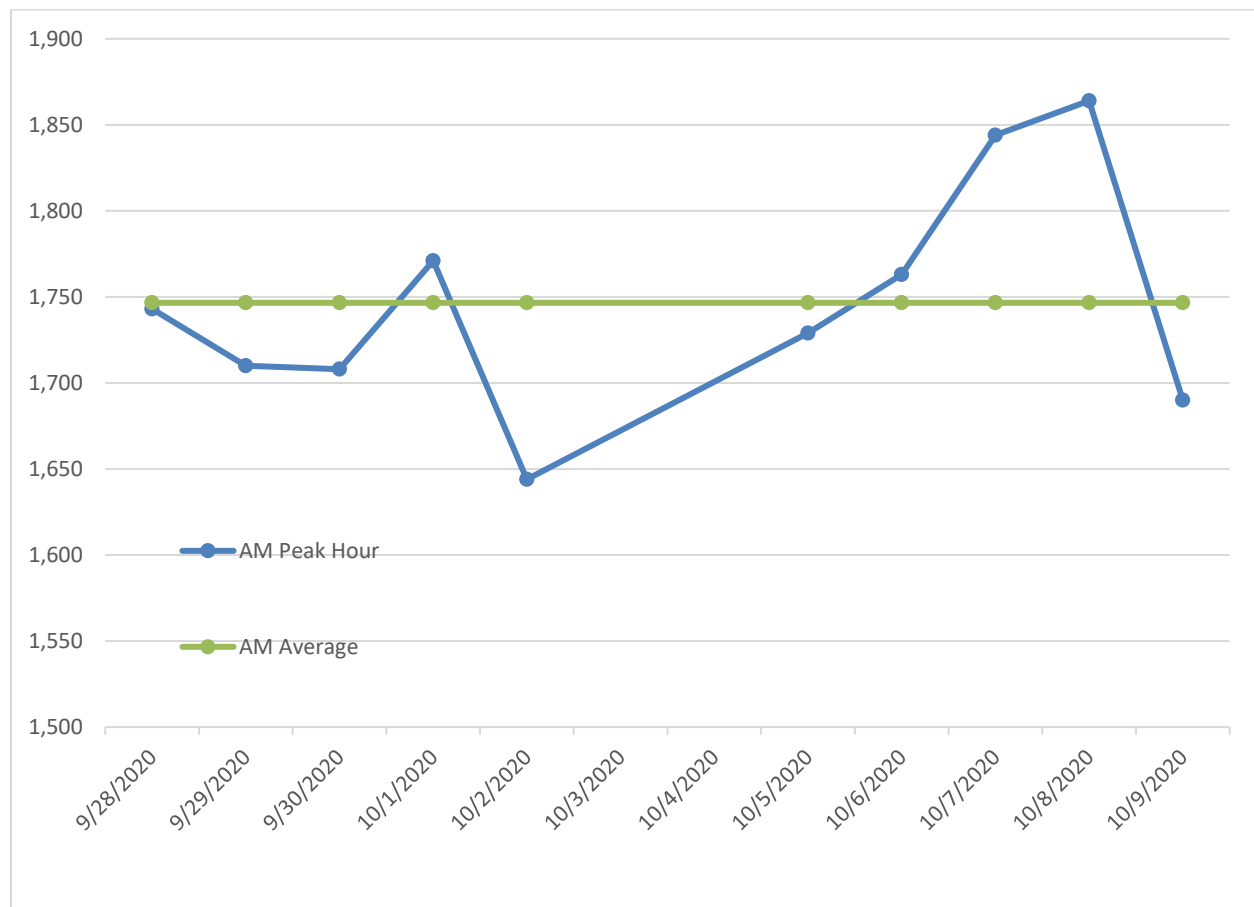


INBOUND AM TRAFFIC

The 2001 baseline counts determined that an average of 3,439 or more inbound vehicles during the AM peak hour would constitute a significant increase in traffic at the 90 percent confidence level of the 2001 baseline counts (3,319 vehicles).

In 2020, no adjustments were applied to the data. The 2020 results are therefore not comparable to the 2001 baseline. The 2020 AM inbound raw (not adjusted) average is 1,747 vehicles, which is about half of the adjusted baseline from 2001. Figure 4, which showed the comparison of adjusted counts against the 2001 baseline in previous reports, now graphically displays the 2020 AM inbound raw data and compares the daily fluctuations with the 2-week average. The y-axis is the number of trips and the x-axis is the count day when AECOM counted the number of cars (on weekdays from September 28 through October 9, 2020).

Figure 4 2020 AM Peak-Hour Raw (not adjusted) Traffic Counts



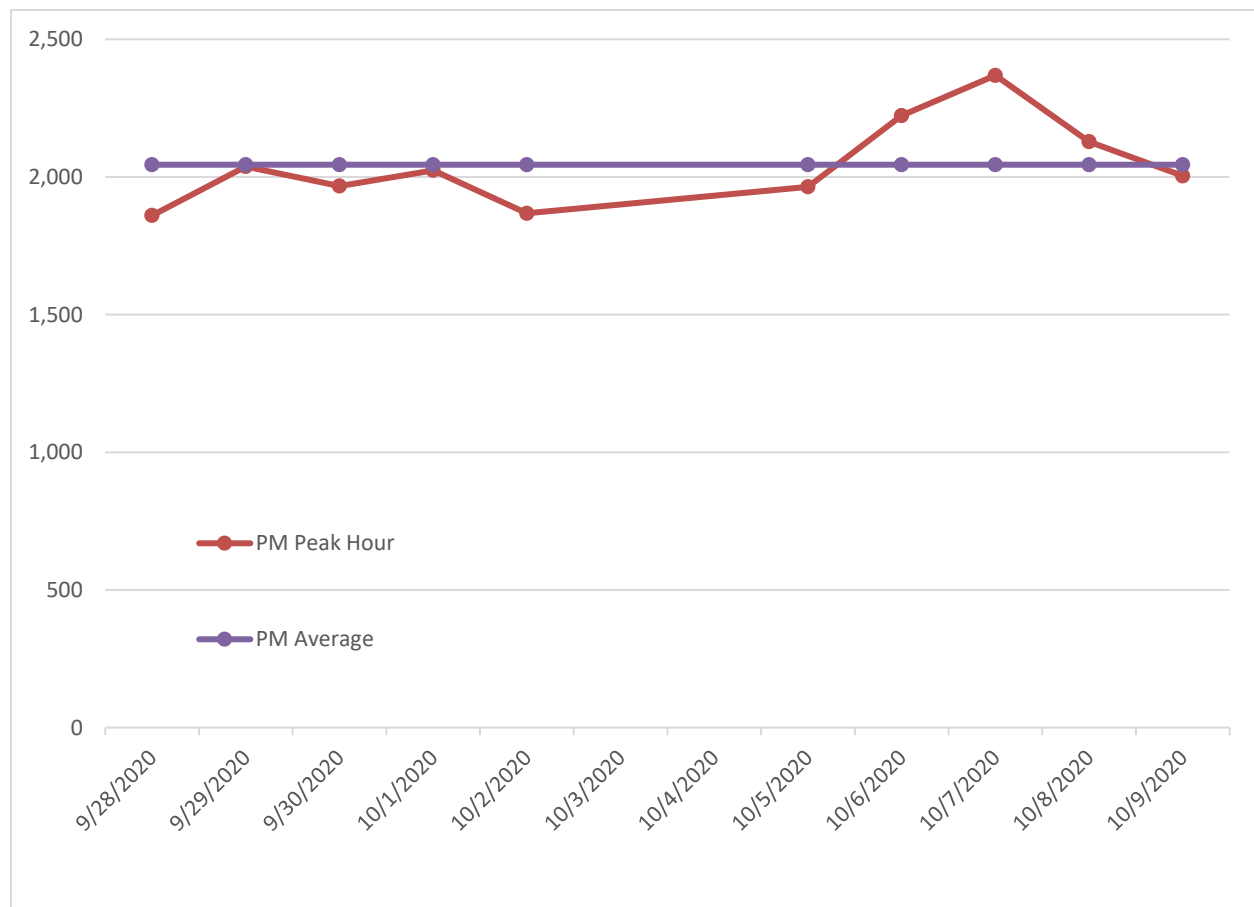


OUTBOUND PM TRAFFIC

The 2001 baseline counts determined that an average of 3,555 or more outbound vehicles during the PM peak hour would constitute a significant increase in traffic at the 90 percent confidence level of the 2001 baseline count of 3,446 vehicles.

In 2020, no adjustments were applied to the data. The 2020 results are therefore not comparable to the 2001 baseline. The 2020 PM inbound raw (not adjusted) average is 2,045 vehicles, which is about 60 percent of the adjusted baseline from 2001. Figure 5, which showed the comparison of adjusted counts against the 2001 baseline in previous reports, now graphically displays the 2020 PM inbound data and compares the daily fluctuations with the 2-week average. The y-axis is the number of trips and the x-axis is the count day when AECOM counted the number of cars (on weekdays from September 28 through October 9, 2020).

Figure 5 2020 PM Peak-Hour Raw (not adjusted) Traffic Counts





CONCLUSION

This year was highly unusual due to the 2020 COVID-19 shelter-in-place order, which was issued in March of 2020 and continued through the year. This resulted in the Stanford campus shutting down to limit the spread of the virus. The Stanford traffic monitoring program could not be conducted in the spring of 2020 because the campus was closed. In addition, the 2-week fall 2020 count included raw traffic volumes only. The 2000 GUP Condition G.7.a. requires traffic counts for a minimum of three times per year for an interval of 2 weeks each time. Since 2003, the established methodology for traffic monitoring program is 6 weeks in the spring and two weeks in the fall for a total of 8 weeks of count data. However, given the pandemic, the County determined that 2 weeks of raw traffic counts would be sufficient to demonstrate that the traffic volumes, due to the pandemic, campus closures and statewide shelter-in-place orders, were well below the historic traffic volumes from 2001.

As described in the previous paragraph, the data could not be compared with the baseline. Instead, AECOM compared the raw, unadjusted data with the newly compiled historic raw, unadjusted data from the previous 19 years. Two weeks of data in the fall of 2020 found an average AM peak-hour traffic volume of 1,747. This is compared with the AM peak-hour average of 4,091 from the previous 19 years of data. Two weeks of data in the fall of 2020 found an average PM peak-hour traffic volume of 2,045. This is compared with the PM peak-hour average of 4,355 from the previous 19 years of data. Thus, 2020 monitoring under pandemic conditions shows traffic at less than half of normal levels.

SUMMARY AND COMPARISON OF PREVIOUS REPORTS

As previously described, the spring 2020 counts were canceled, and the fall counts only include the raw traffic volumes at the campus perimeter that did not undergo the usual parking and cut-through traffic adjustments. This is the result of the COVID-19 pandemic and associated campus closure. Consequently, none of these data are comparable to the established baselines.

The purpose of the Stanford University Traffic Monitoring Program is to compare the volume of traffic entering and exiting the Stanford Campus during the weekday inbound AM peak and the outbound PM peak respectively, to a traffic baseline. This comparison is performed on an annual basis. The requirements for establishing the traffic baseline and performing annual comparisons to the baseline are contained in the December 2000 Stanford Community Plan/GUP/Environmental Impact Report (EIR) and in the 2000 Stanford GUP. Stanford University is required to attain a “no net new commute trip” standard, as defined in the 2000 GUP and EIR.

Condition of Approval G.7. in the 2000 GUP outlines the process for establishing the baseline counts and for continuing monitoring in subsequent years. The approved process is summarized as follows:

- Weekday peak-hour traffic is counted at least three times per year for a 2-week interval each time. The established methodology dictates that eight weeks of counts are averaged to show the annual traffic level.
- All counts are recorded at 16 campus entry and exit points, forming a cordon around the campus.
- License plate numbers are recorded for each vehicle entering and exiting, to determine the volume of cut-through traffic.
- Cordon volumes are adjusted to account for parking lots within the cordon used by the hospital (these volumes are subtracted from the cordon line counts) and parking lots outside the cordon used by the University (these volumes are added to the cordon line counts).¹
- A peak hour is then established for the campus based on the cordon line counts, adjusted for cut-through traffic and parking.

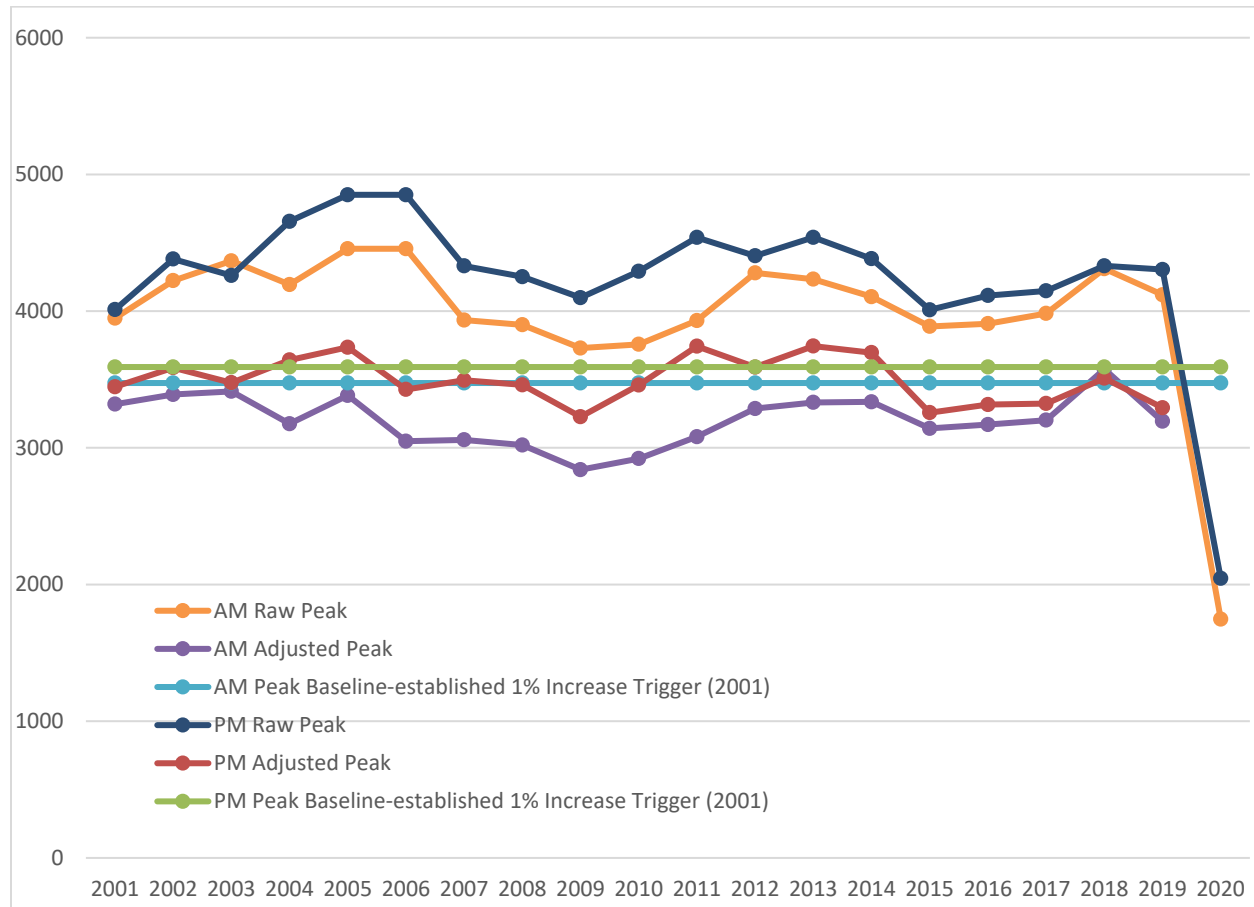
Condition of Approval G.6 in the 2000 GUP defines the peak commute directions as entering the campus in the morning peak commute hour and leaving the campus in the evening commute hour. The peak AM and PM commute hours are defined as the 1-hour intervals with the highest volume of traffic between 7 AM and 9 AM and between 4 PM and 6 PM, respectively, as defined by the counts. Therefore, the two peak hours are considered to be independent events. For example, an increase in AM peak traffic beyond the 1 percent trigger for 2 out of 3 years would trigger the additional elements of the monitoring program without a change, or a decrease, in the PM peak traffic. Also, a significant increase during one year in the AM and a sufficient increase (beyond the 1 percent trigger) in the PM for the following year would not trigger

¹ This methodology changed during 2018. These data were only available in the spring of 2018. In the fall of 2018, because Stanford's contractor did not deliver the needed data for this portion of the calculation, AECOM instead used fall 2017 data as a placeholder. In the spring of 2019, 2017 data were again used because Stanford collected the data itself and it is inappropriate for Stanford to monitor its own traffic for compliance with the GUP. In the fall of 2019, however, AECOM and Stanford worked together to collect and summarize the required data. A memo forthcoming in 2021 will provide a summary, discussion, and recommendations for how this process should be conducted in the future, based on our observations from fall 2019.

additional mitigation. Detailed information on the count results for each year from 2001 to the present is presented later in this section of the report.

These data collection efforts have taken place for the previous 19 years, creating the opportunity to look for trends over time. Figure 6 displays the total traffic counts for the AM and PM peak hours from 2001 through 2020. Because only raw traffic counts were collected in 2020, the chart also displays the historic raw traffic data for comparison. Two weeks of data in the fall of 2020 found an average AM peak-hour traffic volume of 1,747. This year's data is compared with the AM peak-hour average of 4,091 from the previous 19 years of data (presented in Appendix F). Two weeks of data in the fall of 2020 found an average PM peak-hour traffic volume of 2,045. This is compared with the PM peak-hour average of 4,355 from the previous 19 years of data (presented in Appendix F). Volumes have remained relatively consistent over time—with a slight dip in 2009, likely due to an economic downturn—and increased in subsequent years. The 2020 data are, not surprisingly, at about half of the trends of the previous two decades. This is due to the shelter-in-place orders related to the COVID19 pandemic, and to the closure of campus for many uses.

Figure 6 Peak-Hour (AM and PM) Traffic Volume Trends 2001- 2020



The following is a summary of the Baseline report prepared in 2001 and of the 19 years of monitoring from 2002 through 2020.

Traffic Baseline Report

The Traffic Baseline Report represents the first year of traffic monitoring. This report established the baseline conditions to which subsequent years are compared.

Stanford University Traffic Monitoring Report – 2001 GUP Baseline

The 2001 Baseline Report was originally issued on July 3, 2002. An update to that report was issued on October 15, 2003. In accordance with the provisions of the GUP, this original Traffic Baseline Report established the standard for measuring future traffic impacts to the “no net new commute” standard. No conclusions were drawn from this report.

The following were the count dates of the 2001 Baseline Report:

- Week of April 2, 2001
- Week of April 9, 2001
- Week of April 23, 2001
- Week of April 30, 2001
- Week of May 7, 2001
- Week of May 14, 2001
- Week of October 22, 2001
- Week of October 29, 2001

The following were the results of the 2001 Baseline Monitoring:

Inbound AM:

Average count	3,319
90 percent confidence interval	± 120
Significant traffic increase	3,439
1 percent increase trigger	3,474

Outbound PM:

Average	3,446
90 percent confidence interval	± 109
Significant traffic increase	3,555
1 percent increase trigger	3,591

Stanford University Traffic Monitoring Report – 2002 Monitoring Report #1

The 2002 Monitoring Report was originally issued in July 2003. The count dates for the 2002 Monitoring Report were as follows:

- Week of April 15, 2002
- Week of April 22, 2002
- Week of April 29, 2002
- Week of May 6, 2002
- Week of May 13, 2002
- Week of May 20, 2002
- Week of October 14, 2002
- Week of October 21, 2002

The 2002 Monitoring Report concluded that the adjusted AM inbound count totaled 3,390 vehicles. This represents an increase of 71 vehicles, which fell within the 90 percent confidence interval and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,678 vehicles, which was an increase of 232 vehicles from the baseline and was higher than the 90 percent confidence interval. This count exceeded the 1 percent trigger of 3,591 vehicles by 87. The following is a summary of the results of the 2002 Monitoring Report, contained in the July 2003 document.

Inbound AM:

Adjusted average 2002 count	3,390
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 1 percent trigger by 84)	-84

Outbound PM:

Adjusted average 2002 count	3,678
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (232 increase in vehicles exceeds the trigger by 87 vehicles)	+87

Adjustment 1 to 2002 Monitoring Report

An update to the original 2002 Monitoring Report was issued on October 15, 2003. Following the publication of the July 2003 report, Stanford and the County separately analyzed traffic data for the Stanford Homecoming Week. Based on consultation with Stanford and independent analysis of County consultant traffic data, the County determined that data collected for the week of Homecoming should not be included in the comparison data set. The rationale for this decision was that this event (Homecoming) had been ongoing for years, was not included in the baseline count, and would continue to be an annual event. The County communicated to Stanford that other future “large events” would not be excluded from future counts. The revised report substituted the week of October 28, 2002, for the previously counted week of October 14, 2002. The following are the results of the Revised 2002 Monitoring Report.

Inbound AM:

Adjusted average 2002 count	3,287
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 1 percent trigger by 187)	-187

Outbound PM:

Adjusted average 2002 count	3,598
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (152 increase in vehicles exceeds the trigger by seven vehicles)	+7

Adjustment 2 to the 2002 Monitoring Report

Subsequent to the first adjustment to the 2002 Monitoring Report, Stanford informed the County that additional Marguerite shuttle runs had been introduced to campus since the completion of the baseline count and thus were counted in the Year 1 (2002) comparison counts. This addition resulted in an increase of 12 vehicles in each peak hour. County staff determined that these new bus lines should be subtracted from the comparison count. This determination led to the following end result:

Inbound AM:

Adjusted average 2002 count	3,275
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 1 percent trigger by 199)	-199

Outbound PM:

Adjusted average 2002 count	3,586
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 1 percent trigger by five vehicles)	-5

The AM inbound adjusted average shows a decrease of 44 vehicles from the baseline; this decrease falls within the 90 percent confidence interval of ± 120. Because the established 1 percent increase trigger requirement is not met, no additional mitigation is required.

The PM outbound adjusted average shows an increase of 140 vehicles from the baseline count; this increase falls above the +90 percent confidence interval by 31 vehicles. This increase falls below the 1 percent increase trigger by five vehicles. Because the established 1 percent increased trigger requirement is not met, no additional mitigation is required. The 2002 volumes compared to 2001 baseline volumes do not constitute a statistically significant increase in either the AM or the PM peak hours and no mitigation measure is required.

Stanford University Traffic Monitoring Report – 2003 Monitoring Report #2

This section summarizes the 2003 Monitoring Report. The count dates for the 2003 Monitoring Report were as follows:

- Week of April 7, 2003
- Week of April 21, 2003
- Week of April 28, 2003
- Week of May 5, 2003
- Week of May 12, 2003
- Week of May 19, 2003
- Week of September 29, 2003
- Week of October 20, 2003

The 2003 Monitoring Report concluded that the adjusted AM inbound count totaled 3,413 vehicles. This represents an increase of 94 vehicles, which fell within the 90 percent confidence interval and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,476 vehicles, which was an increase of 30 vehicles from the baseline, and also fell within the 90 percent confidence interval. The following is a summary of the results of the 2003 Monitoring Report.

Inbound AM:

Adjusted average 2003 count	3,413
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 26)	-26
Result (falls below the 1 percent trigger by 61 vehicles)	-61

Outbound PM:

Adjusted average 2003 count	3,476
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 79 vehicles)	-79
Result (falls below the 1 percent trigger by 115 vehicles)	-115

Stanford University Traffic Monitoring Report – 2004 Monitoring Report #3

This section summarizes the 2004 Monitoring Report. The count dates for the 2004 Monitoring Report were as follows:

- Week of April 12, 2004
- Week of April 19, 2004
- Week of April 26, 2004
- Week of May 3, 2004
- Week of May 10, 2004
- Week of May 17, 2004
- Week of September 27, 2004
- Week of October 4, 2004

The 2004 Monitoring Report concluded that the adjusted AM inbound count totaled 3,176 vehicles. This represents a decrease of 143 vehicles, which fell within the 90 percent confidence interval and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,642 vehicles, which was an increase of 196 vehicles from the baseline; it is 87 vehicles above 90 percent confidence interval and 51 vehicles more than the 1 percent established trigger. The following is a summary of the results of the initial 2004 Monitoring Report.

Inbound AM:

Adjusted average 2004 count	3,176
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 263)	-263
Result (falls below the 1 percent trigger by 298 vehicles)	-298

Outbound PM:

Adjusted average 2004 count	3,642
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls above the 90 percent confidence interval by 87 vehicles)	+87
Result (falls above the 1 percent trigger by 51 vehicles)	+51

Outbound PM:

Adjusted average 2004 count	3,642
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls above the 90 percent confidence interval by 87 vehicles)	+87
Result (falls above the 1 percent trigger by 51 vehicles)	+51
2004 trip credit	-66
Result with trip credit (falls below the 1 percent trigger by 15 vehicles)	-15

Stanford University Traffic Monitoring Report – 2005 Monitoring Report #4

This section summarizes the 2005 Monitoring Report. The count dates for the 2005 Monitoring Report were as follows:

- Week of April 4, 2005
- Week of April 11, 2005
- Week of April 18, 2005
- Week of April 25, 2005
- Week of May 2, 2005
- Week of May 9, 2005
- Week of September 26, 2005
- Week of October 3, 2005

The 2005 Monitoring Report concluded that the adjusted AM inbound count totaled 3,383 vehicles. This represents an increase of 64 vehicles, which fell within the 90 percent confidence interval and did not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,735 vehicles, which was an increase of 289 vehicles from the baseline; it is above the 90 percent confidence interval by 180 vehicles and above the 1 percent increase trigger by 144 vehicles. The following is a summary of the results of the 2005 Monitoring Report.

Inbound AM:

Adjusted average 2005 count	3,383
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 56)	-56
Result (falls below the 1 percent trigger by 91 vehicles)	-91

Outbound PM:

Adjusted average 2005 count	3,735
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls above the 90 percent confidence interval by 180 vehicles)	+180
Result (falls above the 1 percent trigger by 144 vehicles)	+144

The 2000 Stanford GUP Condition G.8. specifies that the County will recognize and “credit” Stanford’s off-campus trip reduction efforts within defined geographic boundaries. These credits will be applied to Stanford’s attainment of the “no net new commute trip” standard. In 2003, Stanford and the County discussed potential methodologies for providing credits to Stanford. The County developed draft guidelines, which were reviewed by the Community Resource Group. The Planning Office approved the final guidelines on October 9, 2003. These guidelines are presented in the “Stanford Traffic Cordon Count Credit Guidelines,” dated October 28, 2003.

On April 24, 2006, Stanford submitted a 2005 trip credit report that was reviewed by AECOM. This report documented a credit of 174 trips for the increase in the number of bus trips across the cordon points and the number of transit passengers served outside the cordon area in the PM peak hour between the 2001 baseline and 2005. Using the new Marguerite shuttle Automated Transportation Management System, the number of passengers getting on and off the shuttle at each stop was counted. Most of the trip credits claimed are for passengers (primarily Stanford Hospital employees) getting on the shuttle outside the cordon area and traveling to the Palo Alto Caltrain station. As outlined in the adopted guidelines, full credits are claimed for trips in the peak commute direction, and one-third credits are claimed for trips in the reverse direction. Pass-through credits are claimed for those passengers who board outside the cordon, pass through the campus, and then alight outside the campus, based on onboard surveys. As summarized

below, with the trip credit of 174 trips, Stanford did not exceed the no net new commute trip standard, based on the 2005 monitoring program.

Outbound PM:

Adjusted average 2005 count	3,735
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls above the 90 percent confidence interval by 180 vehicles)	+180
Result (falls above the 1 percent trigger by 144 vehicles)	+144
2005 trip credit	-174
Result with trip credit (falls below the 1 percent trigger by 30 vehicles)	-30

Stanford University Traffic Monitoring Report – 2006 Monitoring Report #5

This section summarizes the 2006 Monitoring Report. The count dates for the 2006 Monitoring Report were as follows:

- Week of April 17, 2006
- Week of April 24, 2006
- Week of May 1, 2006
- Week of May 8, 2006
- Week of May 15, 2006
- Week of May 22, 2006
- Week of October 16, 2006
- Week of October 23, 2006

The 2006 Monitoring Report concluded that the adjusted AM inbound count totaled 3,048 vehicles. This represents a decrease of 271 vehicles from baseline, falls within the 90 percent confidence interval, and does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,427 vehicles, which was a decrease of 19 vehicles from the baseline; it is 128 vehicles below the 90 percent confidence interval and 164 vehicles below the 1 percent established trigger. The following is a summary of the results of the 2006 Monitoring Report.

Inbound AM:

Adjusted average 2006 count	3,048
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 391 vehicles)	-391
Result (falls below the 1 percent increase trigger by 426 vehicles)	-426

Outbound PM:

Adjusted average 2006 count	3,427
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 128 vehicles)	-128
Result (falls below the 1 percent trigger by 164 vehicles)	-164

Stanford University Traffic Monitoring Report – 2007 Monitoring Report #6

This section summarizes the 2007 Monitoring Report. The count dates for the 2007 Monitoring Report were as follows:

- Week of April 9, 2007
- Week of April 16, 2007
- Week of April 23, 2007
- Week of April 30, 2007
- Week of May 7, 2007
- Week of May 14, 2007
- Week of October 15, 2007
- Week of October 22, 2007

The 2007 Monitoring Report concluded that the adjusted AM inbound count totaled 3,058 vehicles. This represents a decrease of 261 vehicles from baseline. The PM outbound count totaled 3,494 vehicles, which is an increase of 48 vehicles from the baseline; it is 61 vehicles below the 90 percent confidence interval and 97 vehicles below the 1 percent established trigger. The following is a summary of the results of the 2007 Monitoring Report.

Inbound AM:

Adjusted average 2007 count	3,058
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 381 vehicles)	-381
Result (falls below the 1 percent increase trigger by 416 vehicles)	-416

Outbound PM:

Adjusted average 2007 count	3,494
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 61 vehicles)	-61
Result (falls below the 1 percent trigger by 97 vehicles)	-97

Stanford University Traffic Monitoring Report – 2008 Monitoring Report #7

This section summarizes the 2008 Monitoring Report. The count dates for the 2008 Monitoring Report were as follows:

- Week of April 7, 2008
- Week of April 14, 2008
- Week of April 21, 2008
- Week of April 28, 2008
- Week of May 5, 2008
- Week of May 12, 2008
- Week of October 13, 2008
- Week of October 20, 2008

The 2008 Monitoring Report concluded that the adjusted AM inbound count totaled 3,020 vehicles. This represents a decrease of 299 vehicles from baseline, falls within the 90 percent confidence interval, and does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,460 vehicles, which is an increase of 14 vehicles from the baseline; it is 95 vehicles below the 90 percent confidence interval and 131 vehicles below the 1 percent established trigger. The following is a summary of the results of the 2008 Monitoring Report.

Inbound AM:

Adjusted average 2008 count	3,020
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 419 vehicles)	-419
Result (falls below the 1 percent increase trigger by 454 vehicles)	-454

Outbound PM:

Adjusted average 2008 count	3,460
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 95 vehicles)	-95
Result (falls below the 1 percent trigger by 131 vehicles)	-131

Stanford University Traffic Monitoring Report – 2009 Monitoring Report #8

This section summarizes the 2009 Monitoring Report. The count dates for the 2009 Monitoring Report were as follows:

- Week of April 13, 2009
- Week of April 20, 2009
- Week of April 27, 2009
- Week of May 4, 2009
- Week of May 11, 2009
- Week of May 18, 2009
- Week of October 5, 2009
- Week of October 12, 2009

The 2009 Monitoring Report concluded that the adjusted AM inbound count totaled 2,840 vehicles. This represents a decrease of 479 vehicles from baseline, falls within the 90 percent confidence interval, and does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,227 vehicles, which is a decrease of 219 vehicles from the baseline; it is 328 vehicles below the 90 percent confidence interval and 364 vehicles below the 1 percent established trigger. The following is a summary of the results of the 2009 Monitoring Report.

Inbound AM:

Adjusted average 2009 count	2,840
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 599 vehicles)	-599
Result (falls below the 1 percent increase trigger by 634 vehicles)	-634

Outbound PM:

Adjusted average 2009 count	3,227
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 328 vehicles)	-328
Result (falls below the 1 percent increase trigger by 364 vehicles)	-364

Stanford University Traffic Monitoring Report – 2010 Monitoring Report #9

This section summarizes the 2010 Monitoring Report. The count dates for the 2010 Monitoring Report were as follows:

- Week of April 5, 2010
- Week of April 19, 2010
- Week of April 26, 2010
- Week of May 3, 2010
- Week of May 10, 2010
- Week of May 17, 2010
- Week of October 25, 2010
- Week of November 1, 2010

The 2010 Monitoring Report concluded that the adjusted AM inbound count totaled 2,921 vehicles. This represents a decrease of 398 vehicles from baseline falls below the 90 percent confidence interval; it does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,459 vehicles, which is an increase of 13 vehicles from the baseline; it is 96 vehicles below the 90 percent confidence interval and 132 vehicles below the 1 percent established trigger. The following is a summary of the results of the 2010 Monitoring Report.

Inbound AM:

Adjusted average 2010 count	2,921
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 518 vehicles)	-518
Result (falls below the 1 percent increase trigger by 553 vehicles)	-553

Outbound PM:

Adjusted average 2010 count	3,459
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 96 vehicles)	-96
Result (falls below the 1 percent increase trigger by 132 vehicles)	-132

Stanford University Traffic Monitoring Report – 2011 Monitoring Report #10

This section summarizes the 2011 Monitoring Report. The count dates for the 2011 Monitoring Report were as follows:

- Week of April 18, 2011
- Week of April 25, 2011
- Week of May 2, 2011
- Week of May 9, 2011
- Week of May 16, 2011
- Week of May 23, 2011
- Week of October 24, 2011
- Week of October 31, 2011

The 2011 Monitoring Report concluded that the adjusted AM inbound count totaled 3,081 vehicles. This represents a decrease of 238 vehicles from baseline, falls within the 90 percent confidence interval, and does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,743 vehicles, which is an increase of 297 vehicles from the baseline; it is above the 90 percent confidence interval by 188 vehicles and above the 1 percent increase trigger by 152 vehicles. The following is a summary of the results of the 2011 Monitoring Report.

Inbound AM:

Adjusted average 2011 count	3,081
2001 baseline	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 358 vehicles)	-358
Result (falls below the 1 percent increase trigger by 393 vehicles)	-393

Outbound PM:

Adjusted average 2011 count	3,743
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 188 vehicles)	+188
Result (exceeds the 1 percent trigger by 152 vehicles)	+152

The 2000 Stanford GUP Condition G.8. specifies that the County will recognize and “credit” Stanford’s off-campus trip reduction efforts within defined geographic boundaries. These credits will be applied to Stanford’s attainment of the “no net new commute trip” standard. In 2003, Stanford and the County discussed potential methodologies for providing credits to Stanford. The County developed draft guidelines, which were reviewed by the Community Resource Group. The Planning Office approved the final guidelines on October 9, 2003. These guidelines are presented in the “Stanford Traffic Cordon Count Credit Guidelines,” dated October 28, 2003.

On February 24, 2012, Stanford submitted a 2011 trip credit report that was reviewed by AECOM. This report documented a credit of 203 trips for the increase in the number of bus trips across the cordon points and the number of transit passengers served outside the cordon area in the PM peak hour between the 2001 baseline and 2011. As outlined in the adopted guidelines, full credits are claimed for trips in the peak commute direction, and one-third credits are claimed for trips in the reverse direction. As summarized below, with the trip credit of 203 trips, Stanford does not exceed the no net new commute trip standard, based on the 2011 monitoring program.

Outbound PM:

Adjusted average 2011 count	3,743
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 188 vehicles)	+188
Result (exceeds the 1 percent trigger by 152 vehicles)	+152
2011 trip credit	-203
Result with trip credit (falls below the 1 percent trigger by 51 vehicles)	-51

Stanford University Traffic Monitoring Report – 2012 Monitoring Report #11

This section summarizes the 2012 Monitoring Report. The count dates for the 2012 Monitoring Report were as follows:

- Week of April 9, 2012
- Week of April 16, 2012
- Week of April 23, 2012
- Week of April 30, 2012
- Week of May 7, 2012
- Week of May 14, 2012
- Week of October 22, 2012
- Week of October 29, 2012 (not used)

The 2012 Monitoring Report concluded that the adjusted AM inbound count totaled 3,287 vehicles. This represents a decrease of 32 vehicles from baseline, falls within the 90 percent confidence interval, and does not represent a significant AM inbound traffic increase. The PM outbound count totaled 3,590 vehicles, which is an increase of 144 vehicles from the baseline; it is above the 90 percent confidence interval by 35 vehicles and below the 1 percent established trigger by one vehicle. Count information for the week of October 29, 2012 (Week 8) was not used due to irregular traffic volumes caused by the construction on Junipero Serra Boulevard. As noted earlier, monitoring is only required for a minimum of 6 weeks per year. Therefore, the data collection for 2012 meets the requirements of Condition of Approval G.7.

The following is a summary of the results of the 2012 Monitoring Report.

Inbound AM:

Adjusted average 2012 count	3,287
2001 baseline	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 152 vehicles)	-152
Result (falls below the 1 percent increase trigger by 187 vehicles)	-187

Outbound PM:

Adjusted average 2012 count	3,590
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 35 vehicles)	+35
Result (falls below the 1 percent trigger by one vehicle)	-1

The 2000 Stanford GUP Condition G.8. specifies that the County will recognize and “credit” Stanford’s off-campus trip reduction efforts within defined geographic boundaries. These credits will be applied to Stanford’s attainment of the “no net new commute trip” standard. In 2003, Stanford and the County discussed potential methodologies for providing credits to Stanford. The County developed draft guidelines, which were reviewed by the Community Resource Group. The Planning Office approved the final guidelines on October 9, 2003. These guidelines are presented in the “Stanford Traffic Cordon Count Credit Guidelines,” dated October 28, 2003.

On January 22, 2013, Stanford submitted a 2012 trip credit report that was reviewed by AECOM. This report documented a credit of 301 trips for the increase in the number of bus trips across the cordon points and the number of transit passengers served outside the cordon area in the PM peak hour between the 2001 baseline and 2012. As outlined in the adopted guidelines, full credits are claimed for trips in the peak

commute direction and 1/3 credit claimed for trips in the reverse direction. The following is a summary of the 2012 Outbound PM results with the trip credit of 301 trips.

Outbound PM:

Adjusted average 2012 count	3,590
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 35 vehicles)	+35
Result (falls below the 1 percent trigger by one vehicle)	-1
2012 trip credit	-301
Result with trip credit (falls below the 1 percent trigger by 302 vehicles)	-302

Stanford University Traffic Monitoring Report – 2013 Monitoring Report #12

This section summarizes the 2013 Monitoring Report. The count dates for the 2013 Monitoring Report were as follows:

- Week of April 8, 2013
- Week of April 15, 2013
- Week of April 22, 2013
- Week of April 29, 2013
- Week of May 6, 2013
- Week of May 13, 2013
- Week of October 21, 2013
- Week of October 28, 2013

The 2013 Monitoring Report concluded that the adjusted AM inbound count totaled 3,332 vehicles. This represents an increase of 13 vehicles from baseline; it is 107 vehicles below the 90 percent confidence interval and 142 vehicles below the 1 percent established trigger. The PM outbound count totaled 3,744 vehicles, which is an increase of 298 vehicles from the baseline and is above the 90 percent confidence interval by 189 vehicles and above the 1 percent increase trigger by 153 vehicles.

The following is a summary of the 2013 Monitoring Report results.

Inbound AM:

Adjusted average 2013 count	3,332
2001 baseline	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 107 vehicles)	-107
Result (falls below the 1 percent increase trigger by 142 vehicles)	-142

Outbound PM:

Adjusted average 2013 count	3,744
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 189 vehicles)	+189
Result (exceeds the 1 percent trigger by 153 vehicles)	+153

The 2000 Stanford GUP Condition G.8. specifies that the County will recognize and “credit” Stanford’s off-campus trip reduction efforts within defined geographic boundaries. These credits will be applied to Stanford’s attainment of the “no net new commute trip” standard. In 2003, Stanford and the County discussed potential methodologies for providing credits to Stanford. The County developed draft guidelines, which were reviewed by the Community Resource Group. The Planning Office approved the final guidelines on October 9, 2003. These guidelines are presented in the “Stanford Traffic Cordon Count Credit Guidelines,” dated October 28, 2003.

On January 31, 2014, Stanford submitted a 2013 trip credit report that was reviewed by AECOM. This report documented a credit of 339 trips for the increase in the number of bus trips across the cordon points and the number of transit passengers served outside the cordon area in the PM peak hour between the 2001 baseline and 2013. As outlined in the adopted guidelines, full credits are claimed for trips in the peak commute direction, and one-third credits are claimed for trips in the reverse direction. The following is a summary of the 2013 Outbound PM results with the trip credit of 339 trips.

Outbound PM:

Adjusted average 2013 count	3,744
2001 baseline	3,446

Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 189 vehicles)	+189
Result (exceeds the 1 percent trigger by 153 vehicles)	+153
2013 trip credit	-339
Result with trip credit (falls below the 1 percent trigger by 186 vehicles)	-186

Stanford University Traffic Monitoring Report – 2014 Monitoring Report #13

This section summarizes the 2014 Monitoring Report. The count dates for the 2014 Monitoring Report were as follows:

- Week of April 7, 2014
- Week of April 14, 2014
- Week of April 21, 2014
- Week of April 28, 2014
- Week of May 5, 2014
- Week of May 12, 2014
- Week of September 29, 2014
- Week of October 6, 2014
(October 10, 2014 data not used)

The 2014 Monitoring Report concluded that the adjusted AM inbound count totaled 3,336 vehicles. This represents an increase of 17 vehicles from baseline; it is 103 vehicles below the 90 percent confidence interval and 138 vehicles below the 1 percent established trigger. The PM outbound count totaled 3,696 vehicles, which is an increase of 250 vehicles from the baseline and is above the 90 percent confidence interval by 141 vehicles and above the 1 percent increase trigger by 105 vehicles. Count information for Friday, October 10, 2014 (Week 8) was not used because of irregular traffic volumes likely attributable to the Palo Alto Unified School District not being in session due to a staff development day and to a Stanford home football game. As noted earlier, monitoring is required for a minimum of 6 weeks per year. Therefore, the data collection for 2014 meets the requirements of Condition of Approval G.7.

The following is a summary of the 2014 Monitoring Report results.

Inbound AM:

Adjusted average 2014 count	3,336
2001 baseline	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 103 vehicles)	-103
Result (falls below the 1 percent increase trigger by 138 vehicles)	-138

Outbound PM:

Adjusted average 2014 count	3,696
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 141 vehicles)	+141
Result (exceeds the 1 percent trigger by 105 vehicles)	+105

The 2000 Stanford GUP Condition G.8. specifies that the County will recognize and “credit” Stanford’s off-campus trip reduction efforts within defined geographic boundaries. These credits will be applied to Stanford’s attainment of the “no net new commute trip” standard. In 2003, Stanford and the County discussed potential methodologies for providing credits to Stanford. The County developed draft guidelines, which were reviewed by the Community Resource Group. The Planning Office approved the final guidelines on October 9, 2003. These guidelines are presented in the “Stanford Traffic Cordon Count Credit Guidelines,” dated October 28, 2003.

On March 5, 2015, Stanford submitted a 2014 trip credit report that was reviewed by AECOM. This report documented a credit of 402 trips for the increase in the number of bus trips across the cordon points and the number of transit passengers served outside the cordon area in the PM peak hour between the 2001 baseline and 2014. As outlined in the adopted guidelines, full credits are claimed for trips in the peak

commute direction and one-third credits are claimed for trips in the reverse direction. The following is a summary of the 2014 Outbound PM results with the trip credit of 402 trips.

Outbound PM:

Adjusted average 2014 count	3,696
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (exceeds the 90 percent confidence interval by 141 vehicles)	+141
Result (exceeds the 1 percent trigger by 105 vehicles)	+105
2014 trip credit	-402
Result with trip credit (falls below the 1 percent trigger by 297 vehicles)	-297

Stanford University Traffic Monitoring Report – 2015 Monitoring Report #14

This section summarizes the 2015 Monitoring Report. The count dates for the 2015 Monitoring Report were as follows:

- Week of April 13, 2015
- Week of April 20, 2015
- Week of April 27, 2015
- Week of May 4, 2015
- Week of May 11, 2015
- Week of May 18, 2015
- Week of September 21, 2015
- Week of September 28, 2015

The 2015 Monitoring Report concluded that the adjusted AM inbound count totaled 3,142 vehicles. This represents a decrease of 177 vehicles from baseline; it is 297 vehicles below the 90 percent confidence interval and 332 vehicles below the 1 percent established trigger. The PM outbound count totaled 3,257 vehicles, which is a decrease of 189 vehicles from the baseline; it is below the 90 percent confidence interval by 298 vehicles and below the 1 percent increase trigger by 334 vehicles.

The following is a summary of the 2015 Monitoring Report results.

Inbound AM:

Adjusted average 2015 count	3,142
2001 baseline	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 297 vehicles)	-297
Result (falls below the 1 percent increase trigger by 332 vehicles)	-332

Outbound PM:

Adjusted average 2015 count	3,257
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 298 vehicles)	-298
Result (falls below the 1 percent trigger by 334 vehicles)	-334

Stanford University Traffic Monitoring Report – 2016 Monitoring Report #15

This section summarizes the 2016 Monitoring Report. The count dates for the 2016 Monitoring Report were as follows:

- Week of April 4, 2016
- Week of April 11, 2016
- Week of April 18, 2016
- Week of April 25, 2016
- Week of May 2, 2016
- Week of May 9, 2016
- Week of October 17, 2016
- Week of October 24, 2016

The 2016 Monitoring Report concluded that the adjusted AM inbound count totaled 3,170 vehicles. This represents a decrease of 149 vehicles from baseline and is 269 vehicles below the 90 percent confidence interval and 304 vehicles below the 1 percent established trigger. The PM outbound count totaled 3,316 vehicles, which is a decrease of 130 vehicles from the baseline; it is below the 90 percent confidence interval by 239 vehicles and below the 1 percent increase trigger by 275 vehicles.

The following is a summary of the 2016 Monitoring Report results.

Inbound AM:

Adjusted average 2016 count	3,170
2001 baseline adjusted average	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 269 vehicles)	-269
Result (falls below the 1 percent increase trigger by 304 vehicles)	-304

Outbound PM:

Adjusted average 2016 count	3,316
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 239 vehicles)	-239
Result (falls below the 1 percent trigger by 275 vehicles)	-275

Stanford University Traffic Monitoring Report – 2017 Monitoring Report #16

This section summarizes the 2017 Monitoring Report. The count dates for the 2017 Monitoring Report were as follows:

- Week of April 10, 2017
- Week of April 17, 2017
- Week of April 24, 2017
- Week of May 1, 2017
- Week of May 8, 2017
- Week of May 15, 2017
- Week of October 2, 2017
- Week of October 9, 2017

The 2017 Monitoring Report concluded that the adjusted AM inbound count totaled 3,202 vehicles. This represents a decrease of 117 vehicles from baseline; it is 237 vehicles below the 90 percent confidence interval and 272 vehicles below the 1 percent established trigger. The PM outbound count totaled 3,324 vehicles, which is a decrease of 122 vehicles from the baseline; it is below the 90 percent confidence interval by 231 vehicles and below the 1 percent increase trigger by 267 vehicles.

The following is a summary of the 2017 Monitoring Report results.

Inbound AM:

Adjusted average 2017 count	3,202
2001 baseline	3,319
Baseline-established 90 percent confidence interval (2001)	± 120
Baseline-established significant traffic increase (2001)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Result (falls below the 90 percent confidence interval by 237 vehicles)	-237
Result (falls below the 1 percent increase trigger by 272 vehicles)	-272

Outbound PM:

Adjusted average 2017 count	3,324
2001 baseline	3,446
Baseline-established 90 percent confidence interval (2001)	± 109
Baseline-established significant traffic increase (2001)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Result (falls below the 90 percent confidence interval by 231 vehicles)	-231
Result (falls below the 1 percent increase trigger by 267 vehicles)	-267

Stanford University Traffic Monitoring Report – 2018 Monitoring Report #17

This section summarizes the 2018 Monitoring Report. The count dates for the 2018 Monitoring Report were as follows:

- Week of April 9, 2018
- Week of April 16, 2018
- Week of April 23, 2018
- Week of April 30, 2018
- Week of May 7, 2018
- Week of May 14, 2018
- Week of October 1, 2018
- Week of October 8, 2018

The 2018 average AM inbound count of 3,575 vehicles is 256 vehicles higher than the baseline 2001 AM inbound count; 136 vehicles above than the upper boundary of the 90 percent confidence interval; and 101 vehicles above the established 1 percent trigger. Because the AM peak-hour traffic is above the trigger, Stanford Trip Credits are applied to the total to bring the number into compliance with the metric. The post-audit 2018 Trip Credits total is 595 Trip Credits.

The 2018 PM outbound count of 3,509 vehicles is 63 vehicles higher than the baseline 2001 PM outbound count; 46 vehicles lower than the upper boundary of the 90 percent confidence interval; and 82 vehicles lower than the established 1 percent trigger. The established 1 percent increase trigger requirement is not met; as a result, no mitigation is required.

The following is a summary of the 2018 Monitoring Report results. Note that these numbers have been revised, as described in the revised 2018 report (October 2019), from what was originally reported in April 2019.

Inbound AM:

Adjusted average 2018 count	3,575
Baseline-established 90 percent confidence interval (2001)	±120
Adjusted average 2001 counts	3,319
Baseline-established significant traffic increase (2001) (+)	3,439
Baseline-established 1 percent increase trigger (2001)	3,474
Results exceeded the 90 percent confidence interval by	136
Results exceed 1 percent trigger by	101
Trip credits	-595
Result of traffic performance metric	-494

Outbound PM:

Adjusted average 2018 counts	3,509
Baseline-established 90 percent confidence interval (2001)	±109
Adjusted average 2001 counts	3,446
Baseline-established significant traffic increase (2001) (+)	3,555
Baseline-established 1 percent increase trigger (2001)	3,591
Results fall below the 90 percent confidence interval by	-46
Results falls below 1 percent trigger by	-82

**Stanford University Traffic Monitoring Report – 2019 Monitoring Report #19
(formerly 18)**

This section summarizes the 2019 Monitoring Report. The count dates for the 2019 Monitoring Report were as follows:

- Week of April 8, 2019
- Week of April 15, 2019
- Week of April 22, 2019
- Week of April 29, 2019
- Week of May 6, 2019
- Week of May 13, 2019
- Week of October 14, 2019
- Week of October 21, 2019

The 2019 Monitoring Report concluded that the adjusted AM inbound count totaled 3,194 vehicles. This represents a decrease of 125 vehicles from baseline; it is 245 vehicles below the 90 percent confidence interval and 280 vehicles below the 1 percent established trigger. The PM outbound count totaled 3,293 vehicles, which is a decrease of 153 vehicles from the baseline; it is below the 90 percent confidence interval by 262 vehicles and below the 1 percent increase trigger by 298 vehicles.

The following is a summary of the 2019 Monitoring Report results.

Inbound AM:

Adjusted Average 2019 Counts	3193
Baseline-established 90 percent Confidence Interval (2001)	± 120
Adjusted Average 2001 Counts	3319
Baseline-established Significant Traffic Increase (2001) (+)	3439
Baseline-established 1 percent Increase Trigger (2001)	3474
Results Fall below the 90 percent Confidence Interval by	-246
Results Falls below 1 percent Trigger by	-281

Outbound PM:

Adjusted Average 2019 Counts	3292
Baseline-established 90 percent Confidence Interval (2001)	± 109
Adjusted Average 2001 Counts	3446
Baseline-established Significant Traffic Increase (2001) (+)	3555
Baseline-established 1 percent Increase Trigger (2001)	3591
Results Fall below the 90 percent Confidence Interval by	-263
Results Falls below 1 percent Trigger by	-299

Stanford University Traffic Monitoring Report – 2020 Monitoring Report #20

This section summarizes the 2020 Monitoring Report. The count dates for the 2020 Monitoring Report were as follows:

- Week of September 28, 2020
- Week of October 5, 2020

This year was highly unusual due to the 2020 COVID-19 shelter-in-place order, which was issued in March of 2020 and continued through the year. This resulted in the Stanford campus shutting down to limit the spread of the virus. The Stanford traffic monitoring program could not be conducted in the spring of 2020 because the campus was closed. In addition, the 2-week fall 2020 count included raw traffic volumes only. The methodology established for the 2000 GUP over the past 19 years requires traffic counts eight weeks per year. However, given the pandemic, the County determined that 2 weeks of raw traffic counts would be sufficient as long as the counts demonstrate reduced traffic volumes, due to the campus closures and the pandemic, when compared with the average raw counts from the previous 19 years.

As described in the previous paragraph, the data could not be compared with the baseline. Instead, AECOM compared the raw, unadjusted data with the newly compiled historic raw, unadjusted data from the previous 19 years. Two weeks of data in the fall of 2020 found an average AM peak-hour traffic volume of 1,747. This is compared with the AM peak-hour average of 4,091 from the previous 19 years of data. Two weeks of data in the fall of 2020 found an average PM peak-hour traffic volume of 2,045. This is compared with the PM peak-hour average of 4,355 from the previous 19 years of data. Thus, 2020 traffic counts during pandemic conditions showed traffic at less than half of normal levels.

Appendix A

Detailed Daily Cordon Counts

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002089
Route: CAMPUS DR WEST
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 1
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	33	2	45	0	38	5	45	1	35	2	39
00:15	4	32	3	36	1	44	0	36	2	33	2	36
00:30	1	43	1	51	1	36	0	43	1	50	1	45
00:45	0	44	0	49	2	57	2	45	1	45	1	48
01:00	2	31	2	45	1	53	1	41	0	33	1	41
01:15	0	36	0	41	0	44	1	47	0	45	0	43
01:30	1	34	0	45	1	36	0	46	0	42	0	41
01:45	1	30	1	37	1	40	1	40	2	46	1	39
02:00	0	31	3	45	4	47	2	39	4	38	3	40
02:15	2	33	2	44	1	61	2	60	2	38	2	47
02:30	0	33	0	32	1	36	1	52	1	32	1	37
02:45	0	30	0	42	0	46	4	51	1	36	1	41
03:00	1	22	2	41	1	40	1	29	1	23	1	31
03:15	3	44	2	36	0	44	2	36	1	30	2	38
03:30	2	29	3	45	3	34	2	32	2	27	2	33
03:45	3	34	2	47	4	38	2	48	5	56	3	45
04:00	3	22	4	37	3	42	5	31	2	29	3	32
04:15	5	37	8	34	6	33	6	30	7	37	6	34
04:30	9	39	3	38	5	31	7	35	8	38	6	36
04:45	9	36	13	28	15	41	11	29	9	38	11	34
05:00	13	22	14	40	15	39	21	36	10	30	15	33
05:15	23	21	23	34	25	31	28	39	19	29	24	31
05:30	35	34	41	40	29	46	36	31	38	49	36	40
05:45	61	51	52	46	61	51	66	60	57	37	59	49
06:00	62	38	75	30	63	35	59	42	47	41	61	37
06:15	73	37	74	40	61	36	69	33	65	31	68	35
06:30	73	28	79	28	66	28	60	21	82	30	72	27
06:45	64	18	84	27	81	28	68	30	56	34	71	27
07:00	61	26	73	25	65	21	77	21	62	17	68	22
07:15	65	21	68	24	68	28	84	14	68	17	71	21
07:30	68	19	88	12	68	20	86	12	73	8	77	14
07:45	65	20	71	13	81	18	76	21	82	10	75	16
08:00	74	15	63	13	84	8	63	10	81	14	73	12
08:15	68	16	88	14	79	10	84	8	82	7	80	11
08:30	68	11	88	10	69	10	60	13	69	13	71	11
08:45	67	9	72	8	68	8	65	13	80	8	70	9
09:00	50	6	50	4	66	9	51	6	44	8	52	7
09:15	48	7	67	5	65	8	57	12	54	7	58	8
09:30	60	5	63	8	67	3	61	4	56	7	61	5
09:45	57	9	48	9	55	5	54	10	52	4	53	7
10:00	57	8	51	5	56	6	51	16	53	9	54	9
10:15	51	5	43	12	52	11	45	10	59	10	50	10
10:30	39	8	44	5	46	6	41	9	44	3	43	6
10:45	40	5	46	3	48	3	30	3	45	3	42	3
11:00	46	5	44	5	48	5	38	3	46	2	44	4
11:15	43	1	60	5	55	3	45	6	53	4	51	4
11:30	41	1	31	2	53	4	40	5	41	4	41	3
11:45	31	3	33	3	58	5	44	3	38	1	41	3
Totals	1551	1122	1684	1288	1702	1326	1614	1306	1606	1188	1631	1246
Day Total	2673		2972		3028		2920		2794		2877	
AM Pct	58.0%		56.7%		56.2%		55.3%		57.5%		56.7%	
Peak Hour	8:00	12:30	6:45	12:30	7:45	12:15	7:00	14:00	7:30	12:30	7:30	12:30
Peak Volume	277	186	313	186	313	190	323	202	318	173	305	176
P.H.F	0.9358	0.9118	0.8892	0.9118	0.9315	0.8333	0.9390	0.8417	0.9695	0.8650	0.9501	0.9156

AECOM

7:00-8:00 AM	259	134	300	137	282	147	323	125	285	142	290	137
7:15-8:15 AM	272	134	290	140	301	144	309	130	304	143	295.2	138.2
7:30-8:30 AM	275	118	310	140	312	142	309	139	318	135	304.8	134.8
7:45-8:45 AM	275	113	310	142	313	157	283	135	314	146	299	138.6
8:00-9:00 AM	277	128	311	160	300	167	272	166	312	145	294.4	153.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002089
Route: CAMPUS DR WEST
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 1
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	29	6	38	9	53	4	36	9	56	6	42
00:15	3	54	3	43	1	44	5	44	6	46	4	46
00:30	2	46	5	36	8	46	4	57	3	55	4	48
00:45	0	44	3	46	1	48	1	30	2	46	1	43
01:00	3	38	3	54	2	43	3	31	7	43	4	42
01:15	0	36	2	52	2	38	2	43	1	49	1	44
01:30	4	47	2	48	2	61	1	47	4	49	3	50
01:45	2	47	2	61	2	49	2	60	1	54	2	54
02:00	2	79	2	56	4	94	4	75	1	79	3	77
02:15	0	54	3	66	2	60	4	45	3	57	2	56
02:30	1	70	6	80	7	75	9	81	7	69	6	75
02:45	2	66	0	61	2	57	2	49	0	61	1	59
03:00	2	56	5	76	3	77	5	77	3	66	4	70
03:15	0	64	1	89	3	82	0	86	1	71	1	78
03:30	1	88	0	109	0	99	2	101	2	93	1	98
03:45	0	79	1	82	0	111	2	106	0	69	1	89
04:00	1	88	3	96	0	93	1	103	2	86	1	93
04:15	0	70	2	96	2	86	1	87	1	82	1	84
04:30	2	100	4	94	2	85	5	107	2	91	3	95
04:45	7	80	4	126	4	100	0	81	0	75	3	92
05:00	2	69	4	94	4	105	5	96	1	72	3	87
05:15	2	113	2	110	6	100	3	103	1	99	3	105
05:30	3	76	1	112	4	106	3	75	5	95	3	93
05:45	4	73	4	109	2	82	4	92	6	75	4	86
06:00	4	74	5	61	4	74	8	76	2	69	5	71
06:15	5	66	4	88	2	60	5	68	3	67	4	70
06:30	11	64	10	58	12	74	11	69	13	59	11	65
06:45	13	45	15	42	16	53	18	49	9	56	14	49
07:00	17	52	19	55	17	53	11	48	19	56	17	53
07:15	18	34	17	55	18	45	10	49	19	58	16	48
07:30	29	54	36	60	28	57	28	38	37	49	32	52
07:45	30	56	27	37	32	38	27	42	20	38	27	42
08:00	25	34	26	39	25	28	30	23	25	29	26	31
08:15	18	32	11	24	24	27	27	17	24	21	21	24
08:30	11	19	24	16	18	33	27	26	29	33	22	25
08:45	16	25	23	17	27	11	23	22	24	19	23	19
09:00	16	18	23	19	21	19	16	26	14	19	18	20
09:15	10	18	33	22	24	10	24	13	19	12	22	15
09:30	31	10	33	15	29	10	27	16	19	21	28	14
09:45	28	11	27	15	29	14	25	11	28	10	27	12
10:00	28	15	30	11	34	22	21	8	30	13	29	14
10:15	26	16	35	14	32	4	39	11	38	8	34	11
10:30	21	7	30	9	24	9	31	7	31	7	27	8
10:45	40	7	39	11	35	9	39	13	36	8	38	10
11:00	36	11	39	6	38	8	30	8	47	6	38	8
11:15	42	11	48	13	40	5	33	14	33	8	39	10
11:30	33	10	29	11	53	11	23	10	37	10	35	10
11:45	42	8	41	6	37	9	42	6	50	2	42	6
Totals	595	2263	692	2538	691	2477	647	2382	674	2316	660	2395
Day Total	2858		3230		3168		3029		2990		3055	
AM Pct	20.8%		21.4%		21.8%		21.4%		22.5%		21.6%	
Peak Hour	11:45	16:30	11:45	16:45	11:30	16:45	11:45	15:45	11:45	16:45	11:45	16:30
Peak Volume	171	362	158	442	187	411	179	403	207	341	179	380
P.H.F	0.7917	0.8009	0.9186	0.8770	0.8821	0.9693	0.7851	0.9416	0.9241	0.8611	0.9323	0.9048

AECOM

4:00-5:00 PM	94	338	99	412	95	364	76	378	95	334	92	365.2
4:15-5:15 PM	102	319	106	410	103	376	95	371	101	320	101.4	359.2
4:30-5:30 PM	102	362	100	424	109	390	112	387	106	337	105.8	380
4:45-5:45 PM	84	338	88	442	99	411	111	355	98	341	96	377.4
5:00-6:00 PM	70	331	84	425	94	393	107	366	102	341	91.4	371.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002090
Route: STOCKFARM RD
Location: E. of SAND HILL RD

Site Ref: 2
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	30	1	22	0	20	0	20	1	30	1	24
00:15	2	22	0	34	2	32	0	28	0	18	1	27
00:30	1	29	1	40	2	37	1	41	1	33	1	36
00:45	1	29	0	49	2	31	1	31	1	27	1	33
01:00	0	25	1	27	1	29	0	27	0	31	0	28
01:15	0	21	0	35	1	28	0	27	1	24	0	27
01:30	0	21	0	26	0	29	0	29	0	25	0	26
01:45	0	26	0	25	0	34	0	44	0	22	0	30
02:00	0	30	0	25	3	24	1	24	0	23	1	25
02:15	1	19	0	20	0	26	0	27	1	28	0	24
02:30	0	24	0	34	0	26	0	23	0	26	0	27
02:45	0	13	0	18	0	25	0	25	0	25	0	21
03:00	2	21	1	33	1	19	1	23	1	24	1	24
03:15	1	15	1	18	1	22	0	22	1	20	1	19
03:30	1	25	3	21	0	19	0	23	2	21	1	22
03:45	0	33	1	24	1	23	1	23	0	29	1	26
04:00	1	20	2	19	2	24	1	11	0	25	1	20
04:15	5	22	2	27	1	19	2	25	1	17	2	22
04:30	8	22	9	19	9	11	6	16	9	26	8	19
04:45	5	24	6	17	8	18	9	13	11	17	8	18
05:00	10	12	10	20	14	17	11	14	8	10	11	15
05:15	21	24	23	36	16	20	23	22	14	14	19	23
05:30	29	25	41	20	33	21	30	30	24	25	31	24
05:45	41	14	41	18	54	15	43	11	46	13	45	14
06:00	58	28	60	18	68	21	60	19	60	18	61	21
06:15	74	18	90	30	86	22	89	24	88	19	85	23
06:30	75	25	74	17	97	20	94	17	67	18	81	19
06:45	78	19	90	9	82	18	73	12	69	24	78	16
07:00	76	9	75	5	72	17	67	17	77	11	73	12
07:15	65	6	83	14	61	9	76	6	64	10	70	9
07:30	92	7	58	6	66	7	70	7	69	8	71	7
07:45	81	11	88	13	76	8	81	5	75	1	80	8
08:00	81	4	85	13	78	10	63	5	55	4	72	7
08:15	63	6	65	7	63	11	74	11	61	3	65	8
08:30	66	4	54	6	59	4	55	5	63	5	59	5
08:45	69	6	57	10	69	6	74	4	65	4	67	6
09:00	36	6	64	10	66	5	48	5	47	3	52	6
09:15	50	5	46	3	50	6	53	4	52	1	50	4
09:30	56	6	43	6	37	5	38	8	35	5	42	6
09:45	38	4	69	5	47	3	42	5	34	3	46	4
10:00	37	6	54	7	28	10	41	6	23	6	37	7
10:15	23	6	48	6	40	6	27	5	29	2	33	5
10:30	31	1	59	2	33	4	36	5	34	1	39	3
10:45	23	3	42	4	37	1	35	3	46	4	37	3
11:00	28	2	36	2	38	0	42	1	29	2	35	1
11:15	25	1	34	3	30	0	18	2	33	1	28	1
11:30	27	2	26	2	33	1	33	0	40	1	32	1
11:45	48	2	29	2	40	2	27	3	30	1	35	2
Totals	1430	733	1572	827	1507	765	1446	758	1367	708	1464	758
Day Total	2163		2399		2272		2204		2075		2223	
AM Pct	66.1%		65.5%		66.3%		65.6%		65.9%		65.9%	
Peak Hour	7:15	12:00	6:15	12:30	6:15	12:15	6:15	12:15	6:15	12:30	6:15	12:30
Peak Volume	319	110	329	151	337	129	323	127	301	115	319	124
P.H.F	0.8668	0.9167	0.9139	0.7704	0.8686	0.8716	0.8590	0.7744	0.8551	0.8712	0.9327	0.8625
AECOM												
7:00-8:00 AM	314	88	304	82	275	72	294	65	285	85	294	78.4
7:15-8:15 AM	319	80	314	83	281	65	290	68	263	70	293.4	73.2
7:30-8:30 AM	317	82	296	92	283	66	288	65	260	67	288.8	74.4
7:45-8:45 AM	291	85	292	93	276	76	273	79	254	66	277.2	79.8
8:00-9:00 AM	279	75	261	94	269	73	266	77	244	62	263.8	76.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002091
Route: STOCKFARM RD
Location: E. of SAND HILL RD

Site Ref: 2
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	25	5	24	6	30	6	33	4	27	5	28
00:15	5	28	4	20	6	32	4	29	4	23	5	26
00:30	6	23	0	36	4	28	0	33	1	33	2	31
00:45	2	32	3	29	5	35	3	39	1	32	3	33
01:00	2	30	3	20	0	28	1	25	2	36	2	28
01:15	1	35	4	35	1	35	3	30	1	29	2	33
01:30	2	27	4	27	4	22	2	34	3	42	3	30
01:45	1	28	1	36	0	41	1	43	4	38	1	37
02:00	0	32	1	33	0	37	3	38	0	29	1	34
02:15	4	26	3	45	1	43	0	39	2	32	2	37
02:30	1	44	3	41	5	43	7	32	2	42	4	40
02:45	1	32	0	34	1	40	1	37	3	37	1	36
03:00	2	53	0	40	0	57	1	52	0	52	1	51
03:15	1	40	0	55	3	47	0	59	0	44	1	49
03:30	2	70	3	61	1	67	0	69	1	55	1	64
03:45	1	42	0	59	0	62	0	62	1	61	0	57
04:00	1	53	0	69	3	64	0	59	0	66	1	62
04:15	1	55	0	65	1	64	0	42	1	56	1	56
04:30	3	81	2	54	1	70	2	67	4	71	2	69
04:45	2	62	1	92	3	70	1	77	3	61	2	72
05:00	6	70	3	79	1	74	0	75	0	58	2	71
05:15	8	82	2	84	2	76	3	86	1	68	3	79
05:30	11	71	4	80	0	78	3	58	7	71	5	72
05:45	10	66	8	74	8	78	6	83	5	75	7	75
06:00	26	76	5	73	10	57	9	61	11	60	12	65
06:15	34	41	23	60	10	62	11	69	11	73	18	61
06:30	30	52	16	46	18	57	18	53	12	44	19	50
06:45	44	44	34	50	19	55	10	45	9	42	23	47
07:00	57	39	26	36	27	59	22	44	23	42	31	44
07:15	41	42	20	48	15	35	15	38	12	48	21	42
07:30	63	32	23	49	17	56	25	43	19	44	29	45
07:45	42	47	30	36	17	38	18	45	19	23	25	38
08:00	60	27	30	31	22	36	20	32	14	33	29	32
08:15	42	22	23	30	18	30	21	22	18	18	24	24
08:30	40	16	25	16	30	16	26	14	12	16	27	16
08:45	42	7	23	10	26	15	15	14	18	20	25	13
09:00	19	16	32	23	29	15	17	19	14	12	22	17
09:15	12	21	21	19	19	15	24	18	13	11	18	17
09:30	19	9	15	17	15	4	16	11	16	15	16	11
09:45	8	14	22	9	18	13	12	8	14	10	15	11
10:00	15	12	33	13	27	14	19	10	19	4	23	11
10:15	16	6	19	7	16	5	17	4	13	5	16	5
10:30	21	11	26	5	16	5	13	13	20	5	19	8
10:45	28	11	21	7	16	9	24	12	31	6	24	9
11:00	31	4	17	5	33	8	15	8	28	7	25	6
11:15	22	6	29	8	27	6	20	8	26	4	25	6
11:30	26	5	24	8	18	6	22	4	25	4	23	5
11:45	14	3	20	4	30	8	23	6	25	4	22	5
Totals	827	1670	611	1802	549	1845	479	1802	472	1688	588	1761
Day Total	2497		2413		2394		2281		2160		2349	
AM Pct	33.1%		25.3%		22.9%		21.0%		21.9%		25.0%	
Peak Hour	7:30	16:30	7:45	16:45	11:45	17:00	11:45	16:30	10:45	17:30	7:30	17:00
Peak Volume	207	295	108	335	120	306	118	305	110	279	108	297
P.H.F	0.8214	0.8994	0.9000	0.9103	0.9375	0.9808	0.8939	0.8866	0.8871	0.9300	0.9201	0.9381

AECOM

4:00-5:00 PM	203	251	99	280	76	268	80	245	73	254	106	259.6
4:15-5:15 PM	206	268	103	290	71	278	78	261	64	246	104.4	268.6
4:30-5:30 PM	207	295	106	309	74	290	84	305	70	258	108.2	291.4
4:45-5:45 PM	184	285	108	335	87	298	85	296	63	258	105.4	294.4
5:00-6:00 PM	184	289	101	317	96	306	82	302	62	272	105	297.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002092
Route: WELCH RD
Location: N. of OAK RD

Site Ref: 3
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	16	0	0	0	21	5	17	4	16	2	14
00:15	3	19	0	0	0	25	1	18	2	14	1	15
00:30	1	22	0	0	0	17	1	24	0	24	0	17
00:45	0	17	0	0	0	30	2	22	0	25	0	19
01:00	0	12	0	0	0	18	0	22	1	21	0	15
01:15	0	19	0	0	0	25	1	18	1	24	0	17
01:30	3	26	0	0	0	29	1	20	2	22	1	19
01:45	0	21	0	0	0	25	0	26	0	36	0	22
02:00	1	20	0	0	0	30	4	15	1	20	1	17
02:15	0	20	0	0	0	24	2	25	0	22	0	18
02:30	0	22	0	0	0	27	2	20	0	19	0	18
02:45	0	30	0	0	0	20	0	15	0	28	0	19
03:00	1	22	0	0	0	29	0	36	3	27	1	23
03:15	0	22	0	0	0	27	0	28	1	28	0	21
03:30	2	31	0	0	0	40	2	34	2	38	1	29
03:45	2	23	0	0	0	38	3	33	0	29	1	25
04:00	6	31	0	0	0	29	4	40	7	46	3	29
04:15	4	20	0	0	0	30	2	19	2	23	2	18
04:30	9	30	0	0	0	37	7	37	7	32	5	27
04:45	11	24	0	0	0	30	5	31	11	31	5	23
05:00	8	23	0	0	0	38	9	26	6	27	5	23
05:15	12	28	0	0	0	30	16	33	17	30	9	24
05:30	13	24	0	0	0	35	14	24	17	28	9	22
05:45	23	28	0	0	0	35	18	22	16	29	11	23
06:00	16	19	0	0	0	25	35	23	28	32	16	20
06:15	29	11	0	0	0	21	20	25	20	17	14	15
06:30	24	20	0	0	0	23	18	12	24	19	13	15
06:45	19	11	0	0	0	11	24	13	19	20	12	11
07:00	19	13	0	0	0	13	20	16	24	12	13	11
07:15	19	13	0	0	0	14	31	15	29	9	16	10
07:30	31	15	0	0	0	19	29	14	30	12	18	12
07:45	33	15	0	0	0	14	28	12	18	9	16	10
08:00	22	16	0	0	0	11	30	12	25	12	15	10
08:15	30	10	0	0	0	16	23	10	17	12	14	10
08:30	19	13	0	0	0	10	30	11	25	10	15	9
08:45	24	6	0	0	4	7	24	7	24	8	15	6
09:00	22	6	1	0	22	8	25	9	21	9	18	6
09:15	18	5	7	0	17	5	22	6	18	4	16	4
09:30	28	7	0	0	23	6	23	8	21	11	19	6
09:45	15	6	0	0	22	6	32	4	25	7	19	5
10:00	22	7	0	0	22	13	26	10	30	7	20	7
10:15	17	3	1	0	15	5	18	3	26	7	15	4
10:30	24	8	0	0	22	6	29	4	27	4	20	4
10:45	14	8	0	0	18	5	20	5	14	4	13	4
11:00	15	6	0	0	23	5	13	9	22	5	15	5
11:15	15	0	0	0	26	4	20	7	26	8	17	4
11:30	12	0	0	0	25	7	23	9	14	5	15	4
11:45	17	0	0	0	19	4	23	3	22	3	16	2
Totals	605	768	9	0	258	947	685	852	649	885	441	690
Day Total	1373		9		1205		1537		1534		1132	
AM Pct	44.1%		100.0%		21.4%		44.6%		42.3%		39.0%	
Peak Hour	7:30	15:15	8:30		11:00	17:00	7:15	15:15	9:45	15:15	9:45	15:15
Peak Volume	116	107	8		93	138	118	135	108	141	75	103
P.H.F	0.8788	0.8629	0.2857		0.8942	0.9079	0.9516	0.8438	0.9000	0.7663	0.9142	0.8853
AECOM												
7:00-8:00 AM	102	105	0	0	0	126	108	127	101	132	62	98
7:15-8:15 AM	105	97	0	0	0	135	118	113	102	113	65	91.6
7:30-8:30 AM	116	105	0	0	0	135	110	127	90	120	63.2	97.4
7:45-8:45 AM	104	99	0	0	0	133	111	114	85	116	60	92.4
8:00-9:00 AM	95	103	0	0	4	138	107	105	91	114	59.4	92

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002093
Route: WELCH RD
Location: N. of OAK RD

Site Ref: 3
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	33	0	20	0	22	4	32	5	19	2	25
00:15	4	19	0	13	0	31	5	27	1	15	2	21
00:30	3	22	0	11	0	26	3	28	0	37	1	25
00:45	0	33	0	6	0	40	2	31	0	33	0	29
01:00	1	27	0	4	0	25	4	33	2	19	1	22
01:15	0	24	0	5	0	34	1	26	1	33	0	24
01:30	1	26	0	2	0	28	0	38	1	20	0	23
01:45	1	26	0	7	1	40	1	32	1	28	1	27
02:00	3	24	0	4	1	34	3	30	4	26	2	24
02:15	2	28	0	5	1	25	9	41	13	33	5	26
02:30	2	20	0	16	0	35	16	45	16	39	7	31
02:45	0	24	0	10	1	27	7	39	0	33	2	27
03:00	2	24	0	9	0	26	1	24	2	26	1	22
03:15	1	21	0	10	0	27	0	28	0	26	0	22
03:30	1	35	0	15	0	19	2	29	2	27	1	25
03:45	2	23	0	7	1	22	0	37	1	29	1	24
04:00	2	22	0	8	0	34	3	20	4	23	2	21
04:15	1	21	0	8	1	23	1	30	1	21	1	21
04:30	2	25	0	8	1	27	6	29	4	31	3	24
04:45	2	31	0	6	2	20	3	29	6	33	3	24
05:00	4	24	0	6	4	32	8	26	6	20	4	22
05:15	7	27	0	5	3	25	8	38	7	22	5	23
05:30	10	25	0	6	4	30	14	26	11	32	8	24
05:45	10	34	0	7	4	31	13	29	11	31	8	26
06:00	17	29	0	0	5	30	16	29	20	32	12	24
06:15	13	34	0	5	3	36	19	38	19	28	11	28
06:30	28	33	0	1	2	31	32	36	26	39	18	28
06:45	22	23	0	0	5	23	16	24	21	31	13	20
07:00	22	20	0	0	4	23	30	25	21	15	15	17
07:15	20	17	0	0	3	29	33	21	22	21	16	18
07:30	26	17	0	0	2	17	29	17	26	17	17	14
07:45	37	21	0	0	9	20	26	18	29	11	20	14
08:00	26	10	0	0	10	17	22	8	27	19	17	11
08:15	28	16	0	1	1	17	32	12	34	13	19	12
08:30	30	6	0	1	2	11	34	10	31	12	19	8
08:45	17	10	0	0	8	11	38	15	27	11	18	9
09:00	29	9	6	1	32	12	22	7	17	6	21	7
09:15	18	6	24	0	23	5	31	5	33	5	26	4
09:30	26	8	24	0	22	7	30	8	16	8	24	6
09:45	26	15	32	0	23	12	17	9	25	8	25	9
10:00	19	8	25	0	17	11	26	6	19	3	21	6
10:15	13	8	19	3	25	11	22	14	27	7	21	9
10:30	19	4	12	1	22	9	21	8	26	12	20	7
10:45	26	4	14	0	33	9	20	7	20	3	23	5
11:00	10	7	13	0	22	4	26	6	17	4	18	4
11:15	14	4	7	0	22	4	25	4	26	3	19	3
11:30	11	0	10	0	28	2	18	9	24	2	18	3
11:45	32	0	17	0	38	5	27	3	22	6	27	3
Totals	590	927	203	211	385	1039	726	1086	674	972	516	847
Day Total	1517		414		1424		1812		1646		1363	
AM Pct	38.9%		49.0%		27.0%		40.1%		40.9%		37.8%	
Peak Hour	7:45	17:45	9:15	12:00	11:30	13:15	8:00	14:00	7:45	14:00	11:45	13:45
Peak Volume	121	130	105	50	119	136	126	155	121	131	98	108
P.H.F	0.8176	0.9559	0.8203	0.6250	0.7829	0.8500	0.8289	0.8611	0.8897	0.8397	0.9026	0.8677
AECOM												
4:00-5:00 PM	105	99	0	30	18	104	118	108	98	108	68	89.8
4:15-5:15 PM	109	101	0	28	24	102	110	114	104	105	69.4	90
4:30-5:30 PM	117	107	0	25	22	104	109	122	116	106	72.8	92.8
4:45-5:45 PM	121	107	0	23	22	107	114	119	121	107	75.6	92.6
5:00-6:00 PM	101	110	0	24	21	118	126	119	119	105	73.4	95.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002094
Route: QUARRY RD
Location: Btwn CAMPUS DR & QUARRY RD EXTENSION

Site Ref: 4
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	10	1	24	0	23	2	18	1	15	1	18
00:15	0	16	1	21	1	19	1	10	1	24	1	18
00:30	1	14	1	23	0	32	1	19	0	22	1	22
00:45	2	25	0	22	0	19	2	14	2	23	1	21
01:00	3	11	0	15	0	20	0	26	3	18	1	18
01:15	4	27	0	15	1	24	1	18	1	17	1	20
01:30	1	20	0	16	1	21	1	24	1	16	1	19
01:45	1	16	1	12	1	16	0	22	0	15	1	16
02:00	1	16	0	18	0	25	1	24	1	25	1	22
02:15	0	21	0	15	1	24	1	21	1	18	1	20
02:30	0	20	2	21	0	32	1	18	1	26	1	23
02:45	1	19	1	21	0	26	2	17	1	23	1	21
03:00	3	11	2	14	1	16	2	24	1	13	2	16
03:15	1	18	0	25	0	19	0	24	0	15	0	20
03:30	2	31	2	27	8	24	5	23	0	20	3	25
03:45	3	31	1	17	1	27	2	24	1	23	2	24
04:00	2	24	1	29	3	15	2	19	5	10	3	19
04:15	3	16	1	23	2	24	0	18	2	16	2	19
04:30	2	18	3	24	4	15	4	14	2	14	3	17
04:45	1	19	4	14	5	12	5	12	3	15	4	14
05:00	1	13	4	17	5	15	4	17	2	17	3	16
05:15	7	21	6	14	5	21	3	17	7	22	6	19
05:30	10	15	9	27	9	24	10	16	6	18	9	20
05:45	5	15	14	10	15	8	13	16	15	16	12	13
06:00	19	15	14	8	9	11	10	11	6	18	12	13
06:15	17	12	23	17	17	18	18	20	13	12	18	16
06:30	21	13	25	10	18	17	16	16	22	10	20	13
06:45	20	7	20	14	20	6	20	8	12	18	18	11
07:00	11	10	16	6	10	12	9	9	18	8	13	9
07:15	9	12	20	12	13	15	26	10	24	10	18	12
07:30	20	11	22	10	23	8	17	7	27	11	22	9
07:45	15	5	13	7	20	4	18	9	19	4	17	6
08:00	14	10	18	6	19	4	13	7	19	5	17	6
08:15	17	5	22	8	20	3	20	3	17	4	19	5
08:30	15	3	14	6	17	8	28	4	16	8	18	6
08:45	24	4	15	8	21	7	17	4	18	4	19	5
09:00	20	8	14	4	17	2	14	5	14	7	16	5
09:15	19	3	19	5	15	1	25	2	18	1	19	2
09:30	21	2	13	6	21	3	12	3	13	3	16	3
09:45	11	8	7	8	12	6	17	5	14	4	12	6
10:00	17	6	22	3	6	5	19	7	16	7	16	6
10:15	9	5	17	7	11	4	12	4	14	5	13	5
10:30	7	4	18	4	12	6	19	4	10	8	13	5
10:45	12	8	13	5	20	6	19	5	22	3	17	5
11:00	23	0	9	1	12	5	21	5	20	2	17	3
11:15	19	5	22	4	23	4	23	3	13	3	20	4
11:30	17	2	15	3	17	6	20	3	18	1	17	3
11:45	15	1	22	4	14	3	19	2	27	2	19	2
Totals	446	606	467	630	450	665	495	611	467	599	465	622
Day Total	1052		1097		1115		1106		1066		1087	
AM Pct	42.4%		42.6%		40.4%		44.8%		43.8%		42.8%	
Peak Hour	8:45	15:15	11:45	15:15	11:45	14:00	8:30	15:00	7:15	14:00	11:45	15:15
Peak Volume	84	104	90	98	88	107	84	95	89	92	77	89
P.H.F	0.8750	0.8387	0.9375	0.8448	0.6875	0.8359	0.7500	0.9896	0.8241	0.8846	0.8795	0.8900
AECOM												
7:00-8:00 AM	55	77	71	90	66	66	70	63	88	55	70	70.2
7:15-8:15 AM	58	66	73	78	75	66	74	61	89	62	73.8	66.6
7:30-8:30 AM	66	71	75	69	82	63	68	60	82	68	74.6	66.2
7:45-8:45 AM	61	68	67	72	76	72	79	62	71	72	70.8	69.2
8:00-9:00 AM	70	64	69	68	77	68	78	66	70	73	72.8	67.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002095
Route: QUARRY RD EXT
Location: W. of QUARRY RD

Site Ref: 4
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	3	9	1	19	2	13	5	9	1	16	2	13
00:15	4	12	0	19	0	17	0	14	6	12	2	15
00:30	2	10	2	15	0	10	1	12	1	11	1	12
00:45	1	15	2	20	0	16	3	15	2	13	2	16
01:00	0	11	1	19	2	9	4	17	3	11	2	13
01:15	1	18	3	10	2	7	2	18	0	9	2	12
01:30	1	18	1	14	2	12	2	17	1	11	1	14
01:45	4	10	1	16	0	17	2	18	2	16	2	15
02:00	2	13	0	17	1	15	0	13	2	17	1	15
02:15	0	19	0	10	1	17	1	14	0	19	0	16
02:30	0	28	2	18	1	22	1	21	3	23	1	22
02:45	0	12	0	12	1	14	2	17	1	12	1	13
03:00	2	9	2	19	2	9	3	16	3	11	2	13
03:15	2	13	2	18	4	16	5	14	4	10	3	14
03:30	11	19	4	9	4	15	8	17	5	17	6	15
03:45	7	9	5	14	8	11	10	9	6	10	7	11
04:00	5	11	2	11	8	13	0	6	2	10	3	10
04:15	4	7	5	17	2	14	9	13	5	20	5	14
04:30	4	11	6	14	6	7	6	12	6	10	6	11
04:45	6	9	4	7	8	13	6	7	6	13	6	10
05:00	3	10	6	17	6	8	5	7	6	13	5	11
05:15	5	9	9	13	9	14	10	10	14	9	9	11
05:30	22	7	18	11	7	6	12	8	9	9	14	8
05:45	24	6	22	5	22	6	23	9	15	8	21	7
06:00	23	11	24	11	17	11	13	8	20	9	19	10
06:15	29	8	29	10	34	14	32	9	33	10	31	10
06:30	21	8	21	11	29	3	26	14	29	9	25	9
06:45	16	6	25	4	14	5	16	8	21	5	18	6
07:00	17	5	14	13	23	6	22	9	20	5	19	8
07:15	14	10	22	6	14	8	25	8	22	7	19	8
07:30	21	5	26	8	20	6	19	7	19	2	21	6
07:45	23	6	16	3	16	4	17	7	24	8	19	6
08:00	15	6	23	6	15	2	14	4	20	6	17	5
08:15	17	8	18	11	16	12	16	8	14	7	16	9
08:30	14	5	16	9	15	5	16	7	15	6	15	6
08:45	13	6	11	7	12	7	20	6	14	6	14	6
09:00	19	5	12	9	16	8	23	6	18	4	18	6
09:15	18	7	16	7	21	3	16	6	17	2	18	5
09:30	22	2	9	1	21	6	13	2	17	7	16	4
09:45	18	7	16	4	14	4	25	11	24	3	19	6
10:00	12	7	15	3	11	5	16	3	13	6	13	5
10:15	15	3	10	7	12	2	11	3	13	5	12	4
10:30	20	2	16	3	14	1	15	3	8	3	15	2
10:45	5	3	15	3	12	8	16	5	17	6	13	5
11:00	11	1	10	6	18	6	11	1	16	3	13	3
11:15	9	8	13	4	26	2	9	6	12	4	14	5
11:30	19	3	8	1	18	3	9	7	18	3	14	3
11:45	11	1	16	1	20	3	13	2	12	5	14	2
Totals	515	428	499	492	526	435	533	463	539	441	522	452
Day Total	943		991		961		996		980		974	
AM Pct	54.6%		50.4%		54.7%		53.5%		55.0%		53.6%	
Peak Hour	5:30	14:00	6:00	12:00	5:45	13:45	6:15	13:00	6:00	13:45	5:45	13:45
Peak Volume	98	72	99	73	102	71	96	70	103	75	97	69
P.H.F	0.8448	0.6429	0.8534	0.9125	0.7500	0.8068	0.7500	0.9722	0.7803	0.8152	0.7739	0.7656

AECOM

4:00-5:00 PM	75	38	78	49	73	47	83	38	85	53	79	45
4:15-5:15 PM	73	37	87	55	65	42	75	39	85	56	77	45.8
4:30-5:30 PM	76	39	83	51	67	42	66	36	77	45	73.8	42.6
4:45-5:45 PM	69	35	73	48	62	41	63	32	73	44	68	40
5:00-6:00 PM	59	32	68	46	58	34	66	34	63	39	62.8	37

Traffic Research & Analysis, Inc.
 961 Washington Blvd., Suite 603
 Roseville, CA 95678
 (916) 772-0872

Client: AECOM
 File Number: 2002096
 Route: QUARRY RD
 Location: N. of QUARRY RD EXTENSION

Site Ref: 4
 Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	4	26	0	27	5	26	4	22	5	24	4	25
00:15	5	25	0	27	1	26	8	29	3	28	3	27
00:30	1	33	0	22	1	19	2	24	4	35	2	27
00:45	2	20	0	35	2	22	3	33	5	34	2	29
01:00	5	21	0	28	4	19	6	25	3	27	4	24
01:15	5	19	0	23	5	19	6	33	2	21	4	23
01:30	0	35	0	20	2	24	3	30	2	25	1	27
01:45	4	27	0	32	2	28	2	20	2	16	2	25
02:00	1	32	0	20	5	32	3	32	6	37	3	31
02:15	1	24	0	26	2	37	3	17	2	20	2	25
02:30	2	37	0	31	3	31	0	31	2	30	1	32
02:45	2	29	0	26	1	24	1	22	1	28	1	26
03:00	2	17	0	21	1	27	4	33	1	23	2	24
03:15	2	31	0	36	2	31	0	28	3	30	1	31
03:30	1	27	0	26	1	43	3	44	3	31	2	34
03:45	5	41	0	37	2	27	6	25	5	25	4	31
04:00	5	30	0	30	3	31	1	34	3	22	2	29
04:15	1	20	0	29	6	31	5	27	2	30	3	27
04:30	4	23	0	31	5	24	10	26	7	30	5	27
04:45	4	27	0	28	6	22	3	28	4	32	3	27
05:00	4	37	0	38	5	33	5	29	4	32	4	34
05:15	3	33	0	42	4	33	3	34	5	34	3	35
05:30	17	30	0	37	12	25	9	26	11	29	10	29
05:45	10	27	0	28	13	19	9	21	15	22	9	23
06:00	21	16	0	24	14	29	19	19	16	21	14	22
06:15	13	24	0	21	15	20	12	30	19	22	12	23
06:30	10	23	0	16	22	17	20	23	18	27	14	21
06:45	22	15	0	27	17	16	23	16	23	15	17	18
07:00	16	14	0	14	23	18	25	15	29	18	19	16
07:15	15	21	0	17	16	17	26	21	24	9	16	17
07:30	22	16	0	18	28	17	31	21	22	22	21	19
07:45	20	16	0	13	20	13	16	17	18	15	15	15
08:00	22	12	0	11	21	14	31	15	28	10	20	12
08:15	19	10	0	13	22	14	22	13	12	11	15	12
08:30	20	11	0	15	24	18	20	7	15	13	16	13
08:45	20	5	0	12	23	11	17	5	20	7	16	8
09:00	24	10	0	9	22	7	22	12	20	7	18	9
09:15	12	6	0	9	13	8	23	15	20	10	14	10
09:30	20	7	17	9	19	6	22	9	17	5	19	7
09:45	10	4	27	5	20	5	27	12	13	4	19	6
10:00	22	9	18	6	17	8	24	10	18	3	20	7
10:15	23	10	24	12	18	8	25	6	20	9	22	9
10:30	20	5	30	12	20	2	25	5	19	10	23	7
10:45	21	6	34	3	23	4	25	6	19	3	24	4
11:00	22	7	20	11	25	7	17	7	22	8	21	8
11:15	19	9	14	6	38	12	17	12	28	11	23	10
11:30	20	6	19	6	17	10	22	8	29	6	21	7
11:45	21	0	25	2	30	3	29	4	25	7	26	3
Totals	544	933	228	991	600	937	639	981	594	938	521	956
Day Total	1477		1219		1537		1620		1532		1477	
AM Pct	36.8%		18.7%		39.0%		39.4%		38.8%		35.3%	
Peak Hour	11:45	15:15	10:15	16:45	11:15	15:15	6:45	15:15	11:45	16:30	11:45	15:15
Peak Volume	105	129	108	145	111	132	105	131	112	128	105	126
P.H.F	0.7955	0.7866	0.7941	0.8631	0.7303	0.7674	0.8468	0.7443	0.8000	0.9412	0.9685	0.9196

AECOM

7:00-8:00 AM	73	100	0	118	87	108	98	115	93	114	70	111
7:15-8:15 AM	79	107	0	126	85	110	104	110	92	124	72	115.4
7:30-8:30 AM	83	120	0	139	91	112	100	117	80	128	70.8	123.2
7:45-8:45 AM	81	127	0	145	87	113	89	117	73	127	66	125.8
8:00-9:00 AM	81	127	0	145	90	110	90	110	75	117	67.2	121.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002097
Route: PALM DR
Location: S. of ARBORETUM RD

Site Ref: 5
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	37	2	31	2	39	1	30	3	37	2	35
00:15	0	21	2	30	4	38	0	31	2	48	2	34
00:30	3	39	0	40	1	33	0	38	1	40	1	38
00:45	0	37	1	41	0	45	3	32	2	42	1	39
01:00	2	31	1	41	0	31	1	25	0	39	1	33
01:15	2	19	2	37	4	40	1	42	1	44	2	36
01:30	0	49	2	26	4	40	1	32	0	43	1	38
01:45	1	35	2	29	0	43	0	38	0	36	1	36
02:00	1	31	2	35	2	39	2	35	3	35	2	35
02:15	2	30	2	36	1	36	3	37	7	43	3	36
02:30	0	29	1	42	1	56	3	43	1	42	1	42
02:45	0	33	1	34	1	33	1	32	4	32	1	33
03:00	0	42	0	42	3	36	2	29	0	35	1	37
03:15	5	24	0	41	0	39	0	37	0	35	1	35
03:30	4	44	3	33	1	38	3	52	4	38	3	41
03:45	7	41	9	52	6	60	7	45	7	37	7	47
04:00	2	38	2	35	3	36	2	40	2	41	2	38
04:15	3	48	5	47	5	48	5	43	10	51	6	47
04:30	9	37	15	29	14	34	17	39	12	31	13	34
04:45	10	41	20	38	15	43	18	30	15	49	16	40
05:00	21	29	19	43	17	40	15	43	20	34	18	38
05:15	28	26	29	44	37	31	32	42	21	42	29	37
05:30	31	34	41	42	33	40	43	37	41	37	38	38
05:45	45	59	42	48	52	33	46	55	46	47	46	48
06:00	47	27	51	43	43	44	55	33	46	38	48	37
06:15	60	33	68	35	68	28	77	43	57	29	66	34
06:30	69	30	70	32	64	36	51	33	64	35	64	33
06:45	51	22	58	29	52	27	56	30	46	28	53	27
07:00	36	32	43	21	47	25	52	31	41	30	44	28
07:15	44	24	47	24	33	24	44	18	41	24	42	23
07:30	60	21	60	16	54	31	53	21	57	31	57	24
07:45	46	13	51	18	60	26	59	12	45	22	52	18
08:00	56	22	50	15	49	17	55	19	39	28	50	20
08:15	38	21	45	27	54	23	43	25	36	20	43	23
08:30	41	13	47	7	48	8	54	14	51	24	48	13
08:45	42	17	44	15	53	18	45	14	47	21	46	17
09:00	52	18	47	14	36	16	58	10	51	24	49	16
09:15	49	8	50	20	54	13	55	16	49	15	51	14
09:30	38	26	46	14	38	8	58	16	39	9	44	15
09:45	37	13	31	12	44	9	33	10	35	19	36	13
10:00	38	22	42	18	47	29	48	26	38	18	43	23
10:15	24	11	25	13	31	5	23	15	34	23	27	13
10:30	33	8	43	9	43	10	36	7	25	9	36	9
10:45	40	10	40	5	41	8	30	7	30	7	36	7
11:00	34	0	41	2	34	6	26	5	37	9	34	4
11:15	28	3	35	1	32	5	37	4	24	10	31	5
11:30	37	4	28	4	30	4	34	6	40	8	34	5
11:45	37	1	42	4	33	3	32	1	39	15	37	5
Totals	1214	1253	1307	1314	1294	1374	1320	1323	1213	1454	1270	1344
Day Total	2467		2621		2668		2643		2667		2613	
AM Pct	49.2%		49.9%		48.5%		49.9%		45.5%		48.6%	
Peak Hour	6:00	15:30	6:00	17:00	6:15	15:30	6:00	15:30	5:45	16:00	6:00	15:30
Peak Volume	227	171	247	177	231	182	239	180	213	172	231	173
P.H.F	0.8225	0.8906	0.8821	0.9219	0.8493	0.7583	0.7760	0.8654	0.8320	0.8431	0.8735	0.9146
AECOM												
4:00-5:00 PM	186	164	201	149	194	161	208	152	184	172	195	159.6
4:15-5:15 PM	206	155	208	157	196	165	211	155	182	165	200.6	159.4
4:30-5:30 PM	200	133	206	154	217	148	210	154	177	156	202	149
4:45-5:45 PM	181	130	193	167	211	154	211	152	171	162	193.4	153
5:00-6:00 PM	177	148	186	177	204	144	197	177	173	160	187.4	161.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002098
Route: PALM DR
Location: S. of ARBORETUM RD

Site Ref: 5
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	3	16	4	26	5	29	4	22	9	26	5	24
00:15	1	19	1	26	2	17	2	26	6	22	2	22
00:30	2	31	1	28	3	27	2	21	1	26	2	27
00:45	0	30	2	36	1	34	1	27	1	33	1	32
01:00	4	26	12	24	12	18	11	32	12	22	10	24
01:15	2	20	1	20	5	30	5	15	4	23	3	22
01:30	2	19	3	22	3	20	0	25	3	47	2	27
01:45	1	38	1	30	4	34	1	26	2	29	2	31
02:00	2	37	3	39	6	38	4	51	5	32	4	39
02:15	2	29	5	24	2	53	1	47	3	39	3	38
02:30	3	42	5	55	4	57	4	53	4	43	4	50
02:45	1	29	0	43	1	38	1	40	3	25	1	35
03:00	1	34	0	38	0	45	2	51	2	43	1	42
03:15	2	44	1	45	0	45	0	49	0	33	1	43
03:30	4	38	1	53	2	49	2	55	1	59	2	51
03:45	0	28	0	35	0	49	0	29	0	30	0	34
04:00	0	34	2	37	0	41	0	40	1	36	1	38
04:15	1	29	2	37	0	39	0	30	3	39	1	35
04:30	5	44	4	45	7	39	7	43	5	35	6	41
04:45	2	35	3	34	3	31	1	36	3	34	2	34
05:00	0	38	0	43	1	37	0	49	0	49	0	43
05:15	1	36	1	41	3	38	1	37	1	38	1	38
05:30	11	43	8	50	12	45	10	32	9	39	10	42
05:45	1	27	2	29	5	40	6	35	4	31	4	32
06:00	3	33	0	38	2	36	1	50	1	27	1	37
06:15	3	25	6	30	4	39	5	40	8	49	5	37
06:30	13	33	15	31	8	31	10	44	9	34	11	35
06:45	9	31	11	21	20	23	21	38	20	40	16	31
07:00	30	44	29	36	30	39	27	35	27	31	29	37
07:15	14	22	20	34	14	30	16	35	22	32	17	31
07:30	21	27	27	20	26	27	35	32	22	24	26	26
07:45	14	30	14	22	10	20	5	10	18	23	12	21
08:00	17	18	15	28	25	21	22	17	20	28	20	22
08:15	12	21	17	15	15	20	15	12	15	19	15	17
08:30	13	19	11	11	10	18	9	19	15	30	12	19
08:45	15	10	14	10	11	16	21	8	15	12	15	11
09:00	8	6	10	13	9	11	10	9	13	7	10	9
09:15	19	16	20	12	17	12	26	13	12	11	19	13
09:30	14	7	9	16	19	6	13	9	14	15	14	11
09:45	23	12	17	14	20	7	20	4	22	14	20	10
10:00	10	11	18	8	17	9	10	8	15	10	14	9
10:15	20	8	18	8	25	3	13	11	12	13	18	9
10:30	13	6	26	8	27	8	23	6	16	9	21	7
10:45	22	8	23	4	16	11	20	9	25	6	21	8
11:00	19	6	21	9	24	10	24	12	23	8	22	9
11:15	25	10	19	8	28	6	22	6	16	10	22	8
11:30	21	8	17	15	24	11	24	9	23	14	22	11
11:45	26	1	20	5	25	10	20	6	20	2	22	5
Totals	435	1178	459	1276	507	1317	477	1313	485	1301	473	1277
Day Total	1613		1735		1824		1790		1786		1750	
AM Pct	27.0%		26.5%		27.8%		26.6%		27.2%		27.0%	
Peak Hour	11:45	16:30	11:45	14:30	11:15	14:15	6:45	14:45	11:45	15:00	11:45	14:45
Peak Volume	92	153	100	181	106	193	99	195	94	165	95	171
P.H.F	0.7419	0.8693	0.8929	0.8227	0.9138	0.8465	0.7071	0.8864	0.9038	0.6992	0.8891	0.8425
AECOM												
4:00-5:00 PM	79	142	90	153	80	150	83	149	89	144	84	147.6
4:15-5:15 PM	66	146	76	159	75	146	78	158	82	157	75.4	153.2
4:30-5:30 PM	64	153	73	163	76	145	77	165	75	156	73	156.4
4:45-5:45 PM	56	152	57	168	60	151	51	154	68	160	58.4	157
5:00-6:00 PM	57	144	57	163	61	160	67	153	65	157	61.4	155.4

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Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002099
Route: LASUEN ST
Location: S. of ARBORETUM RD

Site Ref: 6
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	3	0	1	0	1	0	0	0	1	0	1
00:15	0	1	0	1	0	3	0	1	0	0	0	1
00:30	0	3	0	1	0	2	0	0	0	2	0	2
00:45	0	3	0	27	0	3	0	3	0	6	0	8
01:00	0	1	0	3	0	1	0	4	0	1	0	2
01:15	0	5	0	2	0	4	0	3	0	1	0	3
01:30	0	0	0	1	0	0	0	3	0	1	0	1
01:45	0	2	0	2	0	2	0	1	0	0	0	1
02:00	0	3	0	1	0	1	0	1	0	3	0	2
02:15	0	0	0	0	0	0	0	2	0	0	0	0
02:30	0	3	0	4	0	3	0	3	0	1	0	3
02:45	0	6	0	4	0	3	0	1	0	2	0	3
03:00	0	1	0	3	0	4	0	0	0	1	0	2
03:15	0	0	0	4	0	4	0	2	0	0	0	2
03:30	0	2	0	3	0	3	0	0	0	2	0	2
03:45	0	1	0	3	0	1	0	2	0	6	0	3
04:00	0	0	0	2	0	2	0	1	0	0	0	1
04:15	0	4	0	0	0	0	0	2	0	3	0	2
04:30	0	3	1	2	0	3	0	1	0	1	0	2
04:45	0	4	0	1	0	1	0	0	0	1	0	1
05:00	0	1	0	0	0	2	0	2	0	1	0	1
05:15	1	1	0	4	0	0	0	1	0	0	0	1
05:30	0	2	0	1	0	1	0	3	0	0	0	1
05:45	0	3	0	3	0	0	1	1	0	3	0	2
06:00	0	2	0	1	0	2	0	2	0	1	0	2
06:15	0	0	0	2	0	1	0	0	0	1	0	1
06:30	2	2	1	0	0	0	0	0	0	1	1	1
06:45	0	2	0	0	0	0	0	3	1	0	0	1
07:00	0	0	0	0	1	1	0	2	0	0	0	1
07:15	0	0	2	0	1	2	1	3	3	2	1	1
07:30	0	0	1	0	4	1	0	1	2	0	1	0
07:45	1	0	1	0	0	0	0	1	1	1	1	0
08:00	1	1	1	1	0	0	3	0	0	0	1	0
08:15	1	0	0	0	0	0	2	1	0	1	1	0
08:30	0	0	1	0	0	0	1	0	0	0	0	0
08:45	2	0	1	0	2	0	5	0	1	0	2	0
09:00	0	0	0	1	3	1	2	0	0	0	1	0
09:15	1	0	0	0	5	1	0	0	3	0	2	0
09:30	3	0	3	1	1	0	0	0	0	0	1	0
09:45	1	0	2	2	1	0	1	0	2	0	1	0
10:00	2	0	0	1	1	0	0	0	1	1	1	0
10:15	0	0	1	0	1	0	2	1	1	0	1	0
10:30	1	0	2	0	0	0	4	0	2	1	2	0
10:45	1	0	5	0	1	0	1	0	0	0	2	0
11:00	1	0	2	0	1	0	2	1	0	0	1	0
11:15	3	0	2	0	3	0	0	0	2	0	2	0
11:30	2	0	0	0	2	0	2	0	1	0	1	0
11:45	4	0	1	0	2	0	1	0	0	0	2	0
Totals	27	59	27	82	29	53	28	52	20	45	26	58
Day Total	86		109		82		80		65		84	
AM Pct	31.4%		24.8%		35.4%		35.0%		30.8%		31.0%	
Peak Hour	11:15	12:30	10:30	12:30	8:45	14:30	8:00	12:45	6:45	15:30	10:30	12:30
Peak Volume	12	12	11	33	11	14	11	13	6	11	7	15
P.H.F	0.7500	0.6000	0.5500	0.3056	0.5500	0.8750	0.5500	0.8125	0.5000	0.4583	0.8250	0.4464

AECOM

7:00-8:00 AM	1	11	4	5	6	6	1	4	6	5	4	6.2
7:15-8:15 AM	2	12	5	3	5	6	4	5	6	6	4.4	6.4
7:30-8:30 AM	3	9	3	7	4	6	5	4	3	3	3.6	5.8
7:45-8:45 AM	3	8	3	6	0	4	6	6	1	2	2.6	5.2
8:00-9:00 AM	4	7	3	8	2	3	11	7	1	4	4.2	5.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002100
Route: GALVEZ ST
Location: S. of ARBORETUM RD

Site Ref: 7
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	61	0	44	2	47	6	30	3	43	2	45
00:15	2	41	0	48	1	56	0	41	1	37	1	45
00:30	2	49	0	50	2	53	0	46	1	58	1	51
00:45	1	43	2	36	4	56	1	59	2	58	2	50
01:00	0	61	0	57	1	60	3	55	2	47	1	56
01:15	0	51	0	45	1	54	1	39	1	54	1	49
01:30	0	53	1	52	0	51	1	45	0	38	0	48
01:45	1	36	1	47	1	47	0	46	0	39	1	43
02:00	0	43	0	41	0	34	1	45	1	46	0	42
02:15	1	37	1	37	0	55	1	51	1	38	1	44
02:30	0	43	0	42	2	44	0	35	1	43	1	41
02:45	0	35	0	42	0	46	0	37	0	42	0	40
03:00	0	51	0	43	0	45	1	41	1	41	0	44
03:15	0	56	0	34	1	47	1	41	1	38	1	43
03:30	1	47	2	40	2	31	1	39	2	33	2	38
03:45	1	45	2	48	1	36	0	37	1	39	1	41
04:00	1	35	2	41	0	41	1	45	0	28	1	38
04:15	2	30	3	39	2	41	0	33	1	32	2	35
04:30	5	35	9	39	5	38	6	23	6	36	6	34
04:45	4	30	4	37	11	43	10	32	5	38	7	36
05:00	14	37	8	33	4	30	7	30	9	35	8	33
05:15	16	35	20	31	19	30	18	30	10	37	17	33
05:30	33	25	35	33	34	40	34	25	24	23	32	29
05:45	51	40	32	45	56	28	37	21	41	32	43	33
06:00	35	23	33	27	30	21	39	32	22	20	32	25
06:15	40	32	37	20	36	32	42	28	34	32	38	29
06:30	47	31	46	21	48	21	50	20	42	38	47	26
06:45	44	18	50	11	38	15	32	24	38	22	40	18
07:00	45	18	34	19	42	24	43	13	49	24	43	20
07:15	48	15	58	10	56	16	43	19	49	30	51	18
07:30	46	17	48	14	64	22	49	14	38	15	49	16
07:45	62	13	63	13	57	15	74	14	40	7	59	12
08:00	47	16	77	14	58	16	43	12	40	21	53	16
08:15	48	12	44	13	69	14	54	15	49	14	53	14
08:30	47	7	52	12	51	17	52	9	49	19	50	13
08:45	62	16	50	10	62	5	49	14	36	14	52	12
09:00	45	6	50	13	51	10	51	7	60	17	51	11
09:15	47	8	52	7	49	11	46	9	54	9	50	9
09:30	60	12	61	10	45	6	55	6	45	10	53	9
09:45	51	5	53	2	67	8	57	5	59	14	57	7
10:00	51	4	54	7	56	3	30	9	48	4	48	5
10:15	39	0	33	4	37	1	42	5	62	11	43	4
10:30	51	3	32	3	41	4	47	2	48	14	44	5
10:45	42	3	45	5	56	3	43	4	49	7	47	4
11:00	46	2	46	4	48	3	38	7	44	3	44	4
11:15	47	7	47	3	34	7	29	1	39	1	39	4
11:30	65	6	43	5	55	2	39	6	52	6	51	5
11:45	46	1	57	2	48	2	39	4	49	3	48	2
Totals	1297	1294	1287	1253	1347	1331	1216	1205	1209	1310	1271	1279
Day Total	2591		2540		2678		2421		2519		2550	
AM Pct	50.1%		50.7%		50.3%		50.2%		48.0%		49.9%	
Peak Hour	11:15	12:45	7:15	13:00	7:30	12:15	7:45	12:15	9:00	12:30	7:45	12:30
Peak Volume	219	208	246	201	248	225	223	201	218	217	215	206
P.H.F	0.8423	0.8525	0.7987	0.8816	0.8986	0.9375	0.7534	0.8517	0.9083	0.9353	0.9088	0.9205

AECOM

4:00-5:00 PM	201	130	203	156	219	163	209	133	176	134	202	143.2
4:15-5:15 PM	203	132	246	148	235	152	209	118	167	141	212	138.2
4:30-5:30 PM	203	137	232	140	248	141	220	115	167	146	214	135.8
4:45-5:45 PM	204	127	236	134	235	143	223	117	178	133	215.2	130.8
5:00-6:00 PM	204	137	223	142	240	128	198	106	174	127	207.8	128

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002101
Route: GALVEZ ST
Location: S. of ARBORETUM RD

Site Ref: 7
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	53	4	48	7	41	2	35	3	45	3	44
00:15	0	47	1	54	0	45	3	39	3	69	1	51
00:30	2	42	3	52	2	45	0	38	1	41	2	44
00:45	3	56	3	44	4	72	0	35	0	46	2	51
01:00	0	39	2	46	4	49	1	63	5	46	2	49
01:15	3	53	3	48	3	36	1	57	0	48	2	48
01:30	0	65	3	51	2	62	1	60	0	60	1	60
01:45	1	39	1	45	1	45	1	36	0	43	1	42
02:00	1	61	0	56	1	67	3	44	1	75	1	61
02:15	1	68	0	56	1	62	0	51	2	41	1	56
02:30	0	55	4	80	5	95	1	70	4	68	3	74
02:45	1	53	3	59	2	50	4	70	2	70	2	60
03:00	1	63	0	49	1	59	1	46	2	70	1	57
03:15	1	65	1	61	1	71	2	55	0	72	1	65
03:30	0	62	2	57	1	86	1	68	2	71	1	69
03:45	0	72	0	52	2	75	1	63	1	55	1	63
04:00	3	69	3	81	0	72	0	71	1	64	1	71
04:15	0	54	1	72	0	80	0	60	0	66	0	66
04:30	1	56	4	55	0	52	2	61	3	64	2	58
04:45	1	56	0	64	3	74	0	59	1	47	1	60
05:00	1	70	0	80	1	66	1	84	0	68	1	74
05:15	2	53	1	52	1	47	4	46	2	59	2	51
05:30	1	69	2	50	0	60	1	49	1	51	1	56
05:45	3	46	6	54	4	45	2	47	5	32	4	45
06:00	5	43	2	42	3	37	4	51	4	34	4	41
06:15	4	47	4	36	4	54	4	42	3	38	4	43
06:30	7	39	6	36	7	42	6	46	7	50	7	43
06:45	12	30	11	44	16	43	10	29	5	38	11	37
07:00	21	39	16	30	14	38	17	36	20	34	18	35
07:15	9	28	16	29	20	40	18	38	18	33	16	34
07:30	23	25	19	32	16	46	18	28	18	32	19	33
07:45	19	24	17	30	18	19	20	12	18	29	18	23
08:00	32	22	30	24	40	30	32	33	26	25	32	27
08:15	22	20	23	20	28	20	24	21	28	24	25	21
08:30	26	15	24	22	26	14	29	26	40	26	29	21
08:45	25	17	25	13	35	8	40	21	27	17	30	15
09:00	45	17	31	12	44	13	36	18	35	16	38	15
09:15	31	8	41	15	37	13	22	20	43	5	35	12
09:30	41	17	27	15	39	11	26	13	32	11	33	13
09:45	38	9	51	5	29	14	47	3	34	5	40	7
10:00	52	12	38	4	42	8	42	10	43	13	43	9
10:15	36	3	35	6	43	8	32	9	39	7	37	7
10:30	43	6	38	7	51	5	36	10	47	4	43	6
10:45	30	9	45	6	33	8	40	6	40	8	38	7
11:00	45	1	41	3	59	7	50	9	53	7	50	5
11:15	38	8	33	7	44	13	34	6	41	9	38	9
11:30	61	6	45	9	56	5	40	8	55	8	51	7
11:45	52	5	36	2	48	6	34	3	61	1	46	3
Totals	744	1816	701	1815	798	1958	693	1805	776	1845	742	1848
Day Total	2560		2516		2756		2498		2621		2590	
AM Pct	29.1%		27.9%		29.0%		27.7%		29.6%		28.7%	
Peak Hour	11:30	15:15	11:45	16:00	11:00	15:30	10:45	16:15	11:30	14:45	11:30	15:30
Peak Volume	213	268	190	272	207	313	164	264	230	283	193	270
P.H.F	0.8730	0.9306	0.8796	0.8395	0.8771	0.9099	0.8200	0.7857	0.8333	0.9826	0.9377	0.9454

AECOM

7:00-8:00 AM	72	235	68	272	68	278	73	251	74	241	71	255.4
7:15-8:15 AM	83	236	82	271	94	272	88	264	80	245	85.4	257.6
7:30-8:30 AM	96	235	89	251	102	239	94	250	90	238	94.2	242.6
7:45-8:45 AM	99	248	94	246	112	247	105	238	112	225	104.4	240.8
8:00-9:00 AM	105	238	102	236	129	218	125	226	121	210	116.4	225.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002102
Route: SERRA ST
Location: SW. of EL CAMINO REAL

Site Ref: 8
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	32	2	23	2	20	3	27	2	31	2	27
00:15	1	26	2	26	2	18	5	21	1	39	2	26
00:30	3	19	3	37	0	34	0	35	0	44	1	34
00:45	2	21	2	23	2	26	0	27	2	31	2	26
01:00	3	27	2	24	4	21	3	29	0	33	2	27
01:15	0	26	0	32	0	15	0	18	1	35	0	25
01:30	0	14	1	23	1	27	2	26	1	21	1	22
01:45	0	32	1	24	2	35	1	24	0	21	1	27
02:00	0	17	0	21	0	23	2	18	1	28	1	21
02:15	0	18	0	23	0	23	1	31	0	29	0	25
02:30	0	22	0	26	0	32	1	29	2	17	1	25
02:45	1	25	0	16	0	23	1	19	1	23	1	21
03:00	0	22	0	26	0	19	0	15	1	26	0	22
03:15	0	25	1	17	1	26	0	24	0	21	0	23
03:30	1	21	1	18	0	20	0	29	0	17	0	21
03:45	1	19	0	17	0	14	1	22	2	27	1	20
04:00	1	17	2	16	0	28	2	16	1	22	1	20
04:15	1	28	3	20	2	23	2	46	1	21	2	28
04:30	7	21	5	18	5	21	2	19	2	43	4	24
04:45	4	21	5	25	5	29	5	21	4	21	5	23
05:00	8	20	5	29	6	25	4	31	4	21	5	25
05:15	12	20	12	22	10	40	7	25	12	36	11	29
05:30	17	22	13	20	17	27	18	26	12	33	15	26
05:45	22	26	21	37	26	33	22	30	24	31	23	31
06:00	6	22	10	30	9	30	10	28	14	38	10	30
06:15	16	22	20	29	14	31	17	26	9	37	15	29
06:30	23	17	23	22	22	29	20	20	23	36	22	25
06:45	21	27	12	19	16	37	14	38	23	25	17	29
07:00	18	12	15	26	18	19	18	24	14	29	17	22
07:15	14	19	20	17	22	14	17	20	18	44	18	23
07:30	15	22	19	20	23	31	21	22	12	26	18	24
07:45	23	22	34	20	19	22	23	30	18	35	23	26
08:00	21	24	30	15	23	25	24	27	23	27	24	24
08:15	31	25	32	10	28	18	26	18	31	36	30	21
08:30	21	27	23	16	24	30	33	13	25	24	25	22
08:45	24	14	32	11	22	22	25	10	26	19	26	15
09:00	22	12	26	24	28	15	30	12	41	20	29	17
09:15	26	16	32	11	31	11	22	15	14	15	25	14
09:30	18	7	22	12	33	13	25	7	27	23	25	12
09:45	26	7	19	9	29	10	28	8	10	15	22	10
10:00	37	6	17	8	28	8	23	12	29	15	27	10
10:15	25	8	24	7	37	4	24	16	21	18	26	11
10:30	17	3	22	4	22	7	27	10	30	7	24	6
10:45	30	2	28	4	23	8	20	7	30	10	26	6
11:00	24	5	19	2	19	2	20	8	23	4	21	4
11:15	27	4	32	5	27	2	30	6	29	8	29	5
11:30	29	3	28	7	20	2	26	5	25	10	26	5
11:45	21	1	23	6	28	4	21	4	29	10	24	5
Totals	620	868	643	897	650	996	626	994	618	1202	631	991
Day Total	1488		1540		1646		1620		1820		1623	
AM Pct	41.7%		41.8%		39.5%		38.6%		34.0%		38.9%	
Peak Hour	10:45	13:00	7:45	17:45	9:30	17:15	8:15	16:15	11:45	12:15	11:45	17:30
Peak Volume	110	99	119	118	127	130	114	117	143	147	111	116
P.H.F	0.9167	0.7734	0.8750	0.7973	0.8581	0.8125	0.8636	0.6359	0.8125	0.8352	0.8195	0.9204

AECOM

4:00-5:00 PM	70	87	88	79	82	101	79	102	62	107	76	95.2
4:15-5:15 PM	73	90	103	92	87	98	85	117	71	106	83.8	100.6
4:30-5:30 PM	90	82	115	94	93	115	94	96	84	121	95.2	101.6
4:45-5:45 PM	96	83	119	96	94	121	106	103	97	111	102.4	102.8
5:00-6:00 PM	97	88	117	108	97	125	108	112	105	121	104.8	110.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002103
Route: SERRA ST
Location: SW. of EL CAMINO REAL

Site Ref: 8
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	3	38	1	40	3	47	7	30	4	41	4	39
00:15	1	40	3	31	2	34	6	43	1	26	3	35
00:30	2	25	7	39	4	34	4	35	4	43	4	35
00:45	2	24	3	36	7	32	4	33	2	50	4	35
01:00	5	31	1	41	2	40	4	36	1	32	3	36
01:15	1	24	0	30	4	31	1	33	0	42	1	32
01:30	0	30	0	38	0	39	2	19	1	42	1	34
01:45	1	24	1	28	1	29	3	37	1	36	1	31
02:00	4	33	4	35	4	36	3	45	6	40	4	38
02:15	1	26	0	35	1	34	0	38	1	37	1	34
02:30	1	42	3	45	4	60	6	58	6	47	4	50
02:45	2	38	4	32	2	40	2	38	2	51	2	40
03:00	0	31	0	37	1	40	1	41	2	44	1	39
03:15	0	36	0	45	1	53	0	45	0	64	0	49
03:30	2	49	1	42	1	49	2	48	2	51	2	48
03:45	2	38	1	43	0	30	1	54	0	40	1	41
04:00	0	35	1	37	1	44	0	42	2	48	1	41
04:15	4	46	0	33	1	43	0	35	0	45	1	40
04:30	1	36	0	46	0	43	0	44	0	44	0	43
04:45	2	39	3	37	0	38	1	44	1	54	1	42
05:00	1	37	0	49	2	46	4	51	3	74	2	51
05:15	1	30	4	36	0	46	0	53	3	30	2	39
05:30	3	40	4	35	4	53	2	25	6	51	4	41
05:45	3	24	5	33	4	52	7	37	5	60	5	41
06:00	6	34	6	38	5	46	5	53	5	73	5	49
06:15	8	30	3	28	5	45	7	34	5	42	6	36
06:30	13	34	16	37	10	48	15	45	10	48	13	42
06:45	8	36	9	35	8	37	7	37	9	49	8	39
07:00	11	30	5	37	11	32	9	36	3	52	8	37
07:15	6	25	9	31	13	30	11	39	21	45	12	34
07:30	13	24	15	31	18	39	17	28	16	42	16	33
07:45	23	31	22	28	24	31	16	27	13	38	20	31
08:00	32	15	21	35	23	23	23	27	20	37	24	27
08:15	19	28	20	21	13	16	18	28	29	35	20	26
08:30	20	22	19	19	26	24	23	25	26	25	23	23
08:45	23	13	29	19	22	15	31	20	26	28	26	19
09:00	17	18	21	17	26	24	18	25	18	22	20	21
09:15	24	11	17	20	15	17	28	15	23	21	21	17
09:30	16	17	20	14	26	13	21	19	23	27	21	18
09:45	26	18	25	7	26	9	35	10	22	14	27	12
10:00	27	8	41	12	25	15	23	13	30	11	29	12
10:15	30	8	20	7	26	5	34	18	31	13	28	10
10:30	21	1	22	6	19	7	34	6	23	11	24	6
10:45	18	6	34	6	11	6	20	7	25	12	22	7
11:00	39	5	26	14	34	3	30	12	40	12	34	9
11:15	27	2	18	5	20	10	24	8	36	8	25	7
11:30	31	3	22	6	25	7	34	4	27	6	28	5
11:45	32	4	36	3	41	4	25	5	27	6	32	4
Totals	532	1239	522	1379	521	1499	568	1505	561	1769	541	1478
Day Total	1771		1901		2020		2073		2330		2019	
AM Pct	30.0%		27.5%		25.8%		27.4%		24.1%		26.8%	
Peak Hour	11:30	15:30	11:45	16:30	11:45	17:00	11:45	16:30	11:45	17:30	11:45	15:15
Peak Volume	141	168	146	168	156	197	133	192	137	226	141	179
P.H.F	0.8813	0.8571	0.9125	0.8571	0.8298	0.9292	0.7733	0.9057	0.7965	0.7740	0.9018	0.9187

AECOM

7:00-8:00 AM	53	156	51	153	66	168	53	165	53	191	55	166.6
7:15-8:15 AM	74	158	67	165	78	170	67	174	70	217	71.2	176.8
7:30-8:30 AM	87	142	78	168	78	173	74	192	78	202	79	175.4
7:45-8:45 AM	94	146	82	157	86	183	80	173	88	209	86	173.6
8:00-9:00 AM	94	131	89	153	84	197	95	166	101	215	92.6	172.4

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002104
Route: YALE ST
Location: W. of STANFORD AVE

Site Ref: 9
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	5	1	11	0	8	1	8	1	5	1	7
00:15	0	7	0	11	0	7	0	6	0	10	0	8
00:30	1	7	1	5	0	5	0	6	0	4	0	5
00:45	0	11	1	5	0	7	0	9	1	13	0	9
01:00	1	7	0	4	0	7	0	6	1	5	0	6
01:15	0	2	0	5	2	6	0	6	0	8	0	5
01:30	0	7	0	4	0	9	0	11	0	7	0	8
01:45	0	5	0	11	0	9	0	9	0	5	0	8
02:00	0	3	0	5	0	7	0	7	0	9	0	6
02:15	0	5	0	2	0	5	0	5	0	4	0	4
02:30	0	7	0	6	0	4	0	11	0	8	0	7
02:45	0	5	0	10	0	5	0	6	0	6	0	6
03:00	0	5	0	8	0	8	0	5	0	6	0	6
03:15	0	8	0	12	0	5	0	7	0	12	0	9
03:30	0	5	0	6	0	10	0	6	0	6	0	7
03:45	0	7	0	8	0	5	0	8	0	3	0	6
04:00	0	7	0	9	0	15	0	8	0	9	0	10
04:15	0	12	0	10	0	5	0	9	0	10	0	9
04:30	0	3	0	10	0	10	0	10	0	13	0	9
04:45	0	12	0	9	1	11	1	8	1	12	1	10
05:00	0	10	0	14	0	14	0	12	1	13	0	13
05:15	0	9	0	14	0	8	0	11	1	7	0	10
05:30	1	16	0	8	0	14	0	5	0	18	0	12
05:45	2	11	1	12	0	9	0	11	0	7	1	10
06:00	1	9	0	13	3	12	2	11	2	12	2	11
06:15	2	8	3	14	3	4	3	14	3	13	3	11
06:30	0	6	3	11	4	9	2	11	5	9	3	9
06:45	1	8	9	7	13	9	8	11	11	13	8	10
07:00	3	2	3	3	7	7	4	6	4	12	4	6
07:15	4	8	4	7	6	7	6	11	3	8	5	8
07:30	10	6	4	9	2	7	6	4	4	15	5	8
07:45	8	8	4	5	3	7	7	7	11	11	7	8
08:00	6	4	5	10	8	5	4	5	5	9	6	7
08:15	9	6	9	5	5	10	8	7	5	7	7	7
08:30	6	8	9	5	2	3	5	3	6	10	6	6
08:45	7	5	9	0	13	5	12	5	10	5	10	4
09:00	7	5	9	4	10	4	5	2	11	2	8	3
09:15	5	1	7	1	7	2	8	7	2	3	6	3
09:30	3	1	8	0	3	6	4	3	6	4	5	3
09:45	4	1	3	1	8	1	5	3	5	6	5	2
10:00	6	1	4	2	8	4	2	2	10	3	6	2
10:15	4	2	4	1	4	2	8	3	5	5	5	3
10:30	4	1	4	1	4	2	5	0	2	5	4	2
10:45	5	1	8	0	4	1	5	1	8	2	6	1
11:00	6	0	9	0	1	1	8	1	6	0	6	0
11:15	5	1	6	3	6	1	4	0	5	2	5	1
11:30	4	0	9	0	9	1	8	1	3	2	7	1
11:45	8	1	8	0	4	0	7	1	6	2	7	1
Totals	123	269	145	301	140	303	138	309	144	360	138	308
Day Total	392		446		443		447		504		446	
AM Pct	31.4%		32.5%		31.6%		30.9%		28.6%		30.9%	
Peak Hour	7:30	16:45	11:30	17:45	8:45	16:45	8:15	17:45	8:15	16:45	8:15	16:45
Peak Volume	33	47	39	50	33	47	30	47	32	50	31	45
P.H.F	0.8250	0.7344	0.8864	0.8929	0.6346	0.8393	0.6250	0.8393	0.7273	0.6944	0.7696	0.8929

AECOM

4:00-5:00 PM	25	34	15	38	18	41	23	35	22	44	21	38.4
4:15-5:15 PM	28	37	17	43	19	40	23	39	23	48	22	41.4
4:30-5:30 PM	33	34	22	47	18	43	25	41	25	45	24.6	42
4:45-5:45 PM	29	47	27	45	18	47	24	36	27	50	25	45
5:00-6:00 PM	28	46	32	48	28	45	29	39	26	45	28.6	44.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002105
Route: YALE ST
Location: W. of STANFORD AVE

Site Ref: 9
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	6	2	7	0	5	0	5	0	8	0	6
00:15	0	11	0	11	0	9	1	9	1	10	0	10
00:30	1	5	0	8	0	6	0	5	0	11	0	7
00:45	0	4	0	5	0	7	0	5	0	2	0	5
01:00	0	4	0	5	0	5	0	8	0	6	0	6
01:15	0	4	0	3	1	8	0	5	0	12	0	6
01:30	1	8	0	10	0	9	0	11	0	5	0	9
01:45	0	6	0	4	0	6	1	7	0	7	0	6
02:00	0	6	0	5	0	1	0	5	0	8	0	5
02:15	0	4	0	3	0	8	0	7	0	8	0	6
02:30	0	3	0	5	0	9	0	4	0	2	0	5
02:45	0	4	0	5	0	8	0	8	0	16	0	8
03:00	0	2	0	8	0	9	0	4	0	6	0	6
03:15	0	5	0	13	0	10	0	13	0	6	0	9
03:30	0	6	0	18	0	11	0	6	0	12	0	11
03:45	0	9	0	6	0	7	0	5	0	9	0	7
04:00	0	8	0	15	0	12	0	12	0	13	0	12
04:15	1	6	1	7	0	14	0	10	1	15	1	10
04:30	0	6	0	4	0	11	0	12	0	11	0	9
04:45	0	9	0	21	1	12	1	13	0	9	0	13
05:00	0	13	0	14	0	14	0	10	0	10	0	12
05:15	0	6	0	8	0	4	0	12	1	10	0	8
05:30	2	11	0	8	0	10	1	13	0	15	1	11
05:45	1	9	2	15	2	14	1	8	2	15	2	12
06:00	0	12	2	9	2	14	2	14	3	13	2	12
06:15	1	12	0	15	0	9	1	10	2	14	1	12
06:30	4	10	3	11	5	9	2	7	2	14	3	10
06:45	6	7	5	4	0	8	0	10	0	8	2	7
07:00	4	5	2	7	4	8	2	8	3	14	3	8
07:15	4	5	5	6	3	4	6	8	3	5	4	6
07:30	2	7	6	1	6	6	6	6	3	8	5	6
07:45	4	1	3	2	7	2	7	8	4	11	5	5
08:00	6	6	7	8	6	3	11	3	8	7	8	5
08:15	6	2	14	4	6	4	11	7	10	1	9	4
08:30	8	0	9	2	12	3	8	2	6	6	9	3
08:45	6	5	3	2	9	1	10	0	13	5	8	3
09:00	4	1	9	5	2	1	9	3	6	3	6	3
09:15	3	0	9	1	7	4	5	1	8	5	6	2
09:30	9	1	7	0	6	4	5	3	5	3	6	2
09:45	7	2	2	1	11	1	4	1	2	4	5	2
10:00	7	1	4	0	4	2	6	3	12	2	7	2
10:15	2	1	5	2	5	0	1	0	8	3	4	1
10:30	2	1	2	1	3	0	8	0	3	1	4	1
10:45	4	0	6	0	6	1	6	0	4	2	5	1
11:00	3	1	8	0	7	2	7	1	4	1	6	1
11:15	7	0	7	0	3	3	2	0	8	0	5	1
11:30	6	0	5	0	5	0	3	0	7	2	5	0
11:45	9	0	7	0	9	0	7	1	7	2	8	1
Totals	120	235	135	289	132	298	134	293	136	360	131	295
Day Total	355		424		430		427		496		426	
AM Pct	33.8%		31.8%		30.7%		31.4%		27.4%		30.8%	
Peak Hour	11:30	17:30	8:15	15:15	8:00	16:15	8:00	16:45	8:00	17:30	8:00	17:30
Peak Volume	32	44	35	52	33	51	40	48	37	57	34	48
P.H.F	0.7273	0.9167	0.6250	0.7222	0.6875	0.9107	0.9091	0.9231	0.7115	0.9500	0.8989	0.9677

AECOM

7:00-8:00 AM	14	29	16	47	20	49	21	47	13	48	17	44
7:15-8:15 AM	16	34	21	46	22	51	30	45	18	45	21.4	44.2
7:30-8:30 AM	18	34	30	47	25	41	35	47	25	40	26.6	41.8
7:45-8:45 AM	24	39	33	51	31	40	37	48	28	44	30.6	44.4
8:00-9:00 AM	26	39	33	45	33	42	40	43	37	50	33.8	43.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002106
Route: WELLESLEY ST
Location: W. of STANFORD AVE

Site Ref: 10
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	8	0	9	0	5	0	7	0	7	0	7
00:15	0	8	0	5	0	6	1	2	0	5	0	5
00:30	0	3	0	2	1	10	0	2	1	10	0	5
00:45	0	10	0	1	0	4	0	3	0	5	0	5
01:00	1	5	0	5	0	8	1	9	0	3	0	6
01:15	1	5	0	5	0	2	0	1	2	5	1	4
01:30	1	3	0	5	1	3	0	5	0	4	0	4
01:45	0	0	0	6	0	4	1	2	0	8	0	4
02:00	0	6	1	7	0	5	0	4	0	4	0	5
02:15	0	1	0	4	0	4	0	6	0	0	0	3
02:30	0	3	0	2	0	4	0	3	0	1	0	3
02:45	0	1	0	5	0	7	0	3	0	6	0	4
03:00	0	5	0	4	0	7	0	5	0	7	0	6
03:15	0	2	0	3	0	2	0	3	0	3	0	3
03:30	0	2	0	6	0	4	0	4	0	5	0	4
03:45	0	3	0	6	0	4	0	5	0	6	0	5
04:00	0	3	1	1	0	7	0	9	0	5	0	5
04:15	0	2	0	6	0	3	0	7	0	3	0	4
04:30	0	4	0	4	0	6	0	2	0	7	0	5
04:45	0	7	0	3	0	10	0	8	0	7	0	7
05:00	0	4	0	5	0	5	0	7	0	8	0	6
05:15	0	6	1	9	0	6	0	4	0	8	0	7
05:30	0	7	0	10	0	9	0	9	0	10	0	9
05:45	0	7	0	10	0	9	1	6	0	7	0	8
06:00	2	4	3	8	2	8	3	10	1	10	2	8
06:15	1	10	0	7	3	6	1	11	2	7	1	8
06:30	1	5	0	7	0	6	0	8	0	10	0	7
06:45	0	10	0	4	1	9	2	6	1	15	1	9
07:00	0	10	0	5	2	9	1	10	1	7	1	8
07:15	1	7	1	5	1	7	1	8	2	10	1	7
07:30	2	7	1	3	3	15	2	3	1	7	2	7
07:45	3	5	5	1	2	5	3	4	2	6	3	4
08:00	1	3	1	11	0	5	0	5	5	11	1	7
08:15	2	10	5	6	3	1	4	8	5	9	4	7
08:30	2	7	2	5	6	5	6	3	4	6	4	5
08:45	5	2	5	3	5	2	1	4	5	4	4	3
09:00	3	4	3	2	2	2	5	7	2	3	3	4
09:15	5	4	2	2	2	1	2	3	4	4	3	3
09:30	4	2	1	3	5	5	2	3	4	4	3	3
09:45	3	0	3	3	7	2	4	5	3	5	4	3
10:00	3	2	1	4	2	6	3	10	5	0	3	4
10:15	3	1	1	1	3	2	2	1	3	3	2	2
10:30	5	3	3	2	4	4	0	2	3	0	3	2
10:45	5	2	2	1	0	4	4	1	2	5	3	3
11:00	2	1	2	0	1	2	2	3	5	2	2	2
11:15	4	2	6	2	3	2	4	2	4	3	4	2
11:30	5	0	2	1	5	3	3	1	4	2	4	1
11:45	6	1	7	1	4	0	7	1	4	1	6	1
Totals	71	207	59	210	68	245	66	235	75	268	68	233
Day Total	278		269		313		301		343		301	
AM Pct	25.5%		21.9%		21.7%		21.9%		21.9%		22.5%	
Peak Hour	11:30	18:15	11:15	17:15	11:45	18:45	11:15	17:30	11:45	18:00	11:45	17:30
Peak Volume	27	35	24	37	25	40	21	36	26	42	23	33
P.H.F	0.8438	0.8750	0.6667	0.9250	0.6250	0.6667	0.7500	0.8182	0.6500	0.7000	0.8125	0.9167

AECOM

4:00-5:00 PM	6	16	7	14	8	26	7	26	6	22	7	20.8
4:15-5:15 PM	7	17	8	18	6	24	6	24	10	25	7.4	21.6
4:30-5:30 PM	8	21	12	21	8	27	9	21	13	30	10	24
4:45-5:45 PM	8	24	13	27	11	30	13	28	16	33	12.2	28.4
5:00-6:00 PM	10	24	13	34	14	29	11	26	19	33	13.4	29.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002107
Route: WELLESLEY ST
Location: W. of STANFORD AVE

Site Ref: 10
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	7	0	1	0	5	1	2	0	5	0	4
00:15	0	4	2	5	0	7	0	5	0	10	0	6
00:30	1	4	0	7	0	3	0	5	0	6	0	5
00:45	0	4	0	3	2	5	0	3	1	5	1	4
01:00	0	3	0	6	0	4	0	12	0	3	0	6
01:15	0	5	0	3	0	3	0	3	1	6	0	4
01:30	0	3	0	3	0	2	0	2	0	4	0	3
01:45	0	2	0	6	0	2	0	3	0	7	0	4
02:00	0	5	0	5	0	8	1	7	0	5	0	6
02:15	0	3	0	4	0	6	0	4	0	3	0	4
02:30	0	3	0	3	0	4	0	5	0	2	0	3
02:45	0	1	0	6	0	5	0	2	0	6	0	4
03:00	0	3	0	6	0	4	0	4	0	5	0	4
03:15	0	10	0	6	0	4	0	9	0	7	0	7
03:30	0	4	0	8	0	4	0	4	0	6	0	5
03:45	0	2	0	3	0	5	0	7	0	4	0	4
04:00	0	3	0	3	0	4	0	7	0	5	0	4
04:15	0	5	0	8	0	6	0	5	0	7	0	6
04:30	0	6	0	9	0	4	0	8	0	11	0	8
04:45	0	7	0	5	0	6	0	4	0	8	0	6
05:00	1	4	0	5	0	5	0	5	0	8	0	5
05:15	1	4	0	10	0	7	1	13	0	8	0	8
05:30	0	4	0	6	1	10	2	5	0	10	1	7
05:45	3	4	1	13	0	8	0	7	1	3	1	7
06:00	2	7	1	4	0	5	3	6	1	5	1	5
06:15	0	10	0	8	3	5	2	5	2	5	1	7
06:30	1	9	2	5	4	6	1	11	2	12	2	9
06:45	1	7	2	3	0	4	0	8	1	10	1	6
07:00	0	7	1	4	0	8	1	6	1	14	1	8
07:15	3	5	2	6	3	5	4	6	3	6	3	6
07:30	2	2	0	3	2	9	4	1	3	8	2	5
07:45	3	4	4	7	7	9	5	10	6	2	5	6
08:00	3	5	0	3	3	2	2	5	3	5	2	4
08:15	5	2	0	6	5	4	2	1	0	7	2	4
08:30	5	6	2	3	4	6	7	3	7	2	5	4
08:45	6	2	2	1	4	3	4	4	6	3	4	3
09:00	3	4	3	2	7	1	1	3	1	2	3	2
09:15	8	3	2	4	1	2	4	6	6	1	4	3
09:30	2	2	5	0	2	3	3	4	4	2	3	2
09:45	2	0	3	2	3	3	4	2	6	1	4	2
10:00	6	0	4	1	3	1	2	1	9	0	5	1
10:15	5	0	1	0	3	1	1	2	1	1	2	1
10:30	1	0	5	0	4	2	5	0	3	2	4	1
10:45	6	0	0	2	4	1	2	0	2	2	3	1
11:00	1	0	10	0	2	1	3	1	5	1	4	1
11:15	10	0	3	2	2	1	3	0	3	4	4	1
11:30	1	0	5	0	5	1	4	0	7	0	4	0
11:45	3	0	1	0	3	1	7	0	2	0	3	0
Totals	85	175	61	200	77	205	79	216	87	239	78	207
Day Total	260		261		282		295		326		285	
AM Pct	32.7%		23.4%		27.3%		26.8%		26.7%		27.3%	
Peak Hour	8:30	18:00	11:00	17:00	8:15	19:00	11:45	17:15	9:15	18:30	11:45	18:15
Peak Volume	22	33	19	34	20	31	19	31	25	42	18	29
P.H.F	0.6875	0.8250	0.4750	0.6538	0.7143	0.8611	0.6786	0.5962	0.6944	0.7500	0.7419	0.8547
AECOM												
7:00-8:00 AM	8	21	7	25	12	20	14	24	13	31	11	24.2
7:15-8:15 AM	11	22	6	27	15	21	15	22	15	34	12.4	25.2
7:30-8:30 AM	13	21	4	29	17	22	13	30	12	35	11.8	27.4
7:45-8:45 AM	16	19	6	26	19	28	16	27	16	34	14.6	26.8
8:00-9:00 AM	19	16	4	34	16	30	15	30	16	29	14	27.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002108
Route: OBERLIN ST
Location: W. of STANFORD AVE

Site Ref: 11
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	3	0	4	1	1	0	4	0	0	0	2
00:15	0	8	0	6	0	4	0	5	0	4	0	5
00:30	0	1	0	4	0	1	0	3	0	2	0	2
00:45	0	2	0	3	0	2	0	4	0	2	0	3
01:00	0	0	0	5	0	1	0	2	0	5	0	3
01:15	1	3	1	3	0	1	0	2	0	4	0	3
01:30	0	5	0	3	0	8	0	2	0	4	0	4
01:45	0	5	0	2	0	1	0	5	0	5	0	4
02:00	0	2	0	2	0	2	0	4	0	2	0	2
02:15	0	0	0	1	0	4	0	2	0	7	0	3
02:30	0	0	0	1	0	4	0	4	0	5	0	3
02:45	0	3	0	5	0	5	0	5	0	5	0	5
03:00	0	2	0	1	0	4	0	3	0	11	0	4
03:15	0	2	0	3	0	4	0	3	0	7	0	4
03:30	0	3	0	2	0	2	0	3	0	3	0	3
03:45	0	3	0	4	0	0	0	2	0	5	0	3
04:00	0	3	1	4	0	4	0	1	0	2	0	3
04:15	0	3	0	4	0	3	0	0	0	3	0	3
04:30	0	4	0	3	0	3	0	4	0	3	0	3
04:45	0	5	0	3	0	1	0	2	0	3	0	3
05:00	0	4	0	2	0	3	0	3	0	5	0	3
05:15	1	2	0	3	0	4	0	7	0	2	0	4
05:30	0	4	1	4	1	5	1	4	1	4	1	4
05:45	0	5	0	7	0	2	0	2	0	4	0	4
06:00	0	3	0	6	0	4	0	3	0	3	0	4
06:15	1	3	1	3	1	1	1	4	1	5	1	3
06:30	0	1	0	1	0	4	0	5	1	2	0	3
06:45	0	1	1	2	0	2	0	0	0	5	0	2
07:00	1	0	0	1	0	1	1	0	1	3	1	1
07:15	0	1	0	1	0	2	1	1	1	3	0	2
07:30	4	5	4	4	2	3	2	0	2	2	3	3
07:45	4	1	3	3	3	0	1	4	4	1	3	1
08:00	0	0	1	0	1	0	3	0	2	4	1	1
08:15	5	2	3	1	3	2	2	1	0	1	3	1
08:30	0	4	0	2	4	0	0	2	4	2	2	2
08:45	0	2	2	5	2	0	4	1	2	0	2	2
09:00	1	2	3	0	3	0	2	1	2	1	2	1
09:15	1	0	1	2	0	1	2	1	3	1	1	1
09:30	0	1	1	0	1	0	2	2	4	2	2	1
09:45	1	2	0	0	3	0	3	2	1	1	2	1
10:00	1	1	1	0	2	1	2	0	2	1	2	1
10:15	2	0	2	0	1	0	0	3	5	0	2	1
10:30	2	0	2	1	1	1	0	1	1	0	1	1
10:45	1	0	0	0	2	1	3	0	1	0	1	0
11:00	2	0	0	0	0	0	1	0	2	0	1	0
11:15	3	2	2	1	1	0	1	0	2	0	2	1
11:30	2	0	2	1	1	0	3	0	4	1	2	0
11:45	4	0	1	0	3	0	2	0	2	0	2	0
Totals	37	103	33	113	36	92	36	104	48	135	38	109
Day Total	140		146		128		140		183		147	
AM Pct	26.4%		22.6%		28.1%		25.7%		26.2%		25.8%	
Peak Hour	11:30	16:15	11:45	17:15	8:15	14:15	11:30	12:00	9:30	14:15	11:30	17:15
Peak Volume	17	16	15	20	12	17	14	16	12	28	13	16
P.H.F	0.5313	0.8000	0.6250	0.7143	0.7500	0.8500	0.7000	0.8000	0.6000	0.6364	0.5833	0.9286

AECOM

4:00-5:00 PM	9	15	7	14	5	11	4	7	8	11	7	11.6
4:15-5:15 PM	8	16	8	12	6	10	6	9	9	14	7.4	12.2
4:30-5:30 PM	13	15	11	11	9	11	7	16	8	13	9.6	13.2
4:45-5:45 PM	9	15	7	12	11	13	5	16	10	14	8.4	14
5:00-6:00 PM	5	15	6	16	10	14	9	16	8	15	7.6	15.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002109
Route: OBERLIN ST
Location: W. of STANFORD AVE

Site Ref: 11
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	2	0	2	0	0	0	2	0	0	0	1
00:15	0	1	0	1	1	1	1	3	0	0	0	1
00:30	0	6	0	3	0	2	0	4	0	3	0	4
00:45	0	3	0	4	0	3	0	3	0	1	0	3
01:00	0	2	0	2	0	3	0	2	0	4	0	3
01:15	0	0	0	3	0	3	0	4	0	2	0	2
01:30	0	2	1	2	0	1	0	0	0	2	0	1
01:45	0	3	0	2	0	1	0	4	0	5	0	3
02:00	0	3	0	1	0	5	0	2	0	4	0	3
02:15	0	1	0	1	0	2	0	3	0	2	0	2
02:30	0	4	0	1	0	4	0	1	0	3	0	3
02:45	0	0	0	1	0	2	0	0	0	2	0	1
03:00	0	2	1	1	0	2	0	1	0	1	0	1
03:15	0	3	0	3	0	4	0	3	0	1	0	3
03:30	0	1	0	3	0	2	0	1	0	5	0	2
03:45	0	1	0	1	0	3	0	1	0	4	0	2
04:00	0	3	0	3	0	2	0	3	0	6	0	3
04:15	0	2	0	5	0	1	0	0	0	4	0	2
04:30	0	1	0	1	0	0	0	5	0	2	0	2
04:45	1	4	0	3	0	4	0	2	0	3	0	3
05:00	0	3	0	2	0	0	0	0	0	1	0	1
05:15	0	3	0	1	0	1	0	5	0	3	0	3
05:30	0	0	0	3	0	4	0	4	0	3	0	3
05:45	0	4	0	7	0	3	0	5	1	3	0	4
06:00	1	3	2	5	1	0	3	3	2	5	2	3
06:15	2	1	1	2	3	3	2	3	1	2	2	2
06:30	0	2	0	1	1	1	0	1	0	3	0	2
06:45	0	0	1	1	1	0	1	2	0	4	1	1
07:00	2	4	2	1	0	2	2	3	1	2	1	2
07:15	2	5	0	4	2	4	1	1	3	0	2	3
07:30	3	2	3	0	1	3	2	1	3	1	2	1
07:45	2	1	2	2	7	3	5	4	3	1	4	2
08:00	2	0	1	2	1	0	3	0	5	2	2	1
08:15	4	0	3	1	3	3	2	1	4	3	3	2
08:30	2	1	3	3	1	1	3	2	2	3	2	2
08:45	2	0	2	1	3	0	3	2	3	1	3	1
09:00	1	1	1	6	1	2	1	2	2	2	1	3
09:15	1	0	2	1	2	1	1	1	0	2	1	1
09:30	1	1	1	1	1	1	0	0	1	1	1	1
09:45	0	1	2	5	1	0	0	1	1	1	1	2
10:00	1	3	1	3	3	2	1	1	1	0	1	2
10:15	0	0	0	0	0	1	3	1	0	1	1	1
10:30	1	0	1	0	0	0	0	5	0	3	0	2
10:45	0	0	0	0	1	1	4	0	4	0	2	0
11:00	1	0	1	1	3	0	2	2	2	0	2	1
11:15	0	0	0	1	1	1	1	0	4	1	1	1
11:30	3	0	1	0	4	1	1	0	1	1	2	0
11:45	1	1	0	0	6	0	4	1	2	0	3	0
Totals	33	80	32	97	48	83	47	95	46	103	41	92
Day Total	113		129		131		142		149		133	
AM Pct	29.2%		24.8%		36.6%		33.1%		30.9%		31.0%	
Peak Hour	7:30	12:00	7:30	17:30	11:00	14:00	7:45	17:15	7:30	15:30	7:30	17:15
Peak Volume	11	12	9	17	14	13	13	17	15	19	12	13
P.H.F	0.6875	0.5000	0.7500	0.6071	0.5833	0.6500	0.6500	0.8500	0.7500	0.7917	0.7763	0.7386

AECOM

7:00-8:00 AM	9	10	7	12	10	7	10	10	10	15	9	10.8
7:15-8:15 AM	9	10	6	11	11	5	11	7	14	10	10.2	8.6
7:30-8:30 AM	11	11	9	7	12	5	12	12	15	9	11.8	8.8
7:45-8:45 AM	10	10	9	9	12	9	13	11	14	10	11.6	9.8
8:00-9:00 AM	10	10	9	13	8	8	11	14	14	10	10.4	11

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002110
Route: OLMSTEAD RD
Location: N. of ESCONDIDO RD

Site Ref: 12
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	1	0	3	0	1	0	3	0	1	0	2
00:15	0	3	0	3	0	1	0	0	0	3	0	2
00:30	0	2	0	0	0	1	0	2	0	0	0	1
00:45	0	0	0	1	0	1	0	1	0	1	0	1
01:00	0	2	0	2	0	2	0	4	0	0	0	2
01:15	0	1	0	1	0	3	0	1	0	2	0	2
01:30	0	3	0	2	0	2	0	0	0	2	0	2
01:45	0	0	0	0	0	2	0	1	0	1	0	1
02:00	1	1	0	2	0	2	0	2	0	0	0	1
02:15	0	1	0	0	0	1	0	2	0	0	0	1
02:30	0	1	0	3	0	3	0	0	0	3	0	2
02:45	0	2	0	0	0	2	0	1	0	1	0	1
03:00	0	0	0	1	0	3	0	6	0	1	0	2
03:15	0	1	0	1	0	1	0	0	0	0	0	1
03:30	0	1	0	1	0	0	0	0	0	1	0	1
03:45	0	1	0	1	0	1	0	4	0	4	0	2
04:00	0	0	0	2	0	6	0	1	0	3	0	2
04:15	0	2	0	7	0	6	0	5	0	4	0	5
04:30	0	2	0	2	0	0	0	0	0	1	0	1
04:45	0	0	0	0	0	3	0	0	0	1	0	1
05:00	0	1	1	2	0	3	0	3	0	0	0	2
05:15	0	3	0	1	0	0	0	1	0	1	0	1
05:30	0	2	0	1	0	1	0	1	0	4	0	2
05:45	1	2	0	3	2	0	1	3	1	3	1	2
06:00	2	0	3	0	0	0	2	0	1	5	2	1
06:15	0	1	0	2	1	1	1	0	1	0	1	1
06:30	1	0	0	0	0	1	0	2	0	1	0	1
06:45	1	2	5	1	2	1	1	1	1	1	2	1
07:00	5	1	0	0	1	0	3	1	2	1	2	1
07:15	6	1	11	0	8	0	13	1	7	0	9	0
07:30	9	0	8	1	10	1	5	1	8	0	8	1
07:45	4	1	5	0	6	0	6	0	5	0	5	0
08:00	2	0	2	0	1	0	0	1	1	0	1	0
08:15	2	2	3	0	2	0	2	1	2	0	2	1
08:30	2	0	0	0	2	0	6	1	5	0	3	0
08:45	2	1	4	0	1	1	2	1	0	1	2	1
09:00	2	1	0	0	1	0	0	1	0	0	1	0
09:15	0	0	1	0	0	0	2	1	1	1	1	0
09:30	0	0	0	0	1	0	2	1	1	0	1	0
09:45	0	0	0	0	1	0	0	0	0	0	0	0
10:00	1	1	0	0	0	0	0	0	0	0	0	0
10:15	0	0	0	0	1	0	0	0	2	0	1	0
10:30	2	0	0	1	0	1	4	0	0	0	1	0
10:45	1	0	1	0	1	0	1	0	1	0	1	0
11:00	1	1	5	0	3	0	1	0	1	0	2	0
11:15	0	0	2	0	0	0	1	0	2	0	1	0
11:30	1	0	2	0	3	0	1	0	4	0	2	0
11:45	4	0	3	0	3	0	2	0	5	0	3	0
Totals	50	44	56	44	50	51	56	54	51	47	53	48
Day Total	94		100		101		110		98		101	
AM Pct	53.2%		56.0%		49.5%		50.9%		52.0%		52.3%	
Peak Hour	7:00	17:00	7:15	15:45	7:00	16:00	7:00	15:00	7:00	17:15	7:00	15:45
Peak Volume	24	8	26	12	25	15	27	10	22	13	24	10
P.H.F	0.6667	0.6667	0.5909	0.4286	0.6250	0.6250	0.5192	0.4167	0.6875	0.6500	0.6778	0.5417
AECOM												
4:00-5:00 PM	24	4	24	11	25	15	27	6	22	9	24	9
4:15-5:15 PM	21	5	26	11	25	12	24	8	21	6	23.4	8.4
4:30-5:30 PM	17	6	18	5	19	6	13	4	16	3	16.6	4.8
4:45-5:45 PM	10	6	10	4	11	7	14	5	13	6	11.6	5.6
5:00-6:00 PM	8	8	9	7	6	4	10	8	8	8	8.2	7

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002111
Route: OLMSTEAD RD
Location: N. of ESCONDIDO RD

Site Ref: 12
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	6	0	5	0	0	0	5	0	3	0	4
00:15	0	2	0	5	0	6	0	1	0	5	0	4
00:30	0	0	0	1	0	1	0	0	0	3	0	1
00:45	0	6	0	2	0	4	0	4	0	1	0	3
01:00	0	2	0	2	0	9	0	3	0	1	0	3
01:15	0	1	0	1	0	1	0	1	0	1	0	1
01:30	0	3	0	3	0	1	0	1	0	2	0	2
01:45	0	2	0	0	0	0	0	3	0	0	0	1
02:00	0	2	0	1	0	6	0	0	0	2	0	2
02:15	0	1	0	1	0	0	0	1	0	3	0	1
02:30	2	4	0	0	0	6	0	1	0	2	0	3
02:45	0	1	0	3	0	1	0	0	0	5	0	2
03:00	0	6	1	1	0	1	0	4	0	1	0	3
03:15	0	5	0	2	0	10	0	8	0	2	0	5
03:30	0	3	0	2	0	1	0	1	0	2	0	2
03:45	0	3	0	0	2	1	0	0	0	0	0	1
04:00	0	1	0	1	0	8	0	5	0	3	0	4
04:15	0	3	0	3	0	4	0	4	0	3	0	3
04:30	0	7	0	3	0	9	0	8	0	10	0	7
04:45	0	0	0	4	0	2	0	3	0	0	0	2
05:00	0	1	0	9	0	3	0	11	0	2	0	5
05:15	0	4	0	3	0	4	0	2	0	1	0	3
05:30	0	3	0	0	0	2	0	2	0	2	0	2
05:45	0	0	2	2	2	4	0	0	2	1	1	1
06:00	2	1	0	0	0	0	4	1	0	0	1	0
06:15	0	1	0	0	2	3	0	1	0	1	0	1
06:30	0	0	1	0	0	0	0	0	0	0	0	0
06:45	0	2	0	0	0	0	1	2	0	0	0	1
07:00	0	0	0	0	0	0	0	2	2	1	0	1
07:15	0	2	1	0	2	1	1	1	0	0	1	1
07:30	3	1	2	2	0	3	0	0	0	0	1	1
07:45	1	0	1	0	7	0	4	1	0	1	3	0
08:00	3	2	0	2	0	0	2	2	1	1	1	1
08:15	5	0	3	0	1	0	3	0	3	1	3	0
08:30	4	0	2	0	2	0	3	1	4	0	3	0
08:45	4	0	1	0	7	1	2	1	1	1	3	1
09:00	4	0	1	0	0	0	1	2	1	0	1	0
09:15	0	0	0	0	2	0	3	2	1	0	1	0
09:30	2	0	1	0	0	0	0	1	1	1	1	0
09:45	1	0	0	1	0	0	2	0	2	0	1	0
10:00	1	0	1	1	0	0	0	1	4	0	1	0
10:15	0	0	1	0	0	1	2	0	3	0	1	0
10:30	0	0	0	0	1	0	1	0	3	2	1	0
10:45	0	0	1	0	1	0	0	0	1	0	1	0
11:00	2	0	4	0	2	0	5	0	1	0	3	0
11:15	0	0	5	0	1	0	0	0	3	0	2	0
11:30	1	0	3	0	0	0	2	0	4	0	2	0
11:45	2	0	3	0	3	1	1	0	3	0	2	0
Totals	37	75	34	60	35	94	37	86	40	64	37	76
Day Total	112		94		129		123		104		112	
AM Pct	33.0%		36.2%		27.1%		30.1%		38.5%		32.6%	
Peak Hour	8:15	15:00	11:15	16:15	8:30	16:00	7:45	16:15	11:30	15:45	11:30	16:15
Peak Volume	17	17	16	19	11	23	12	26	15	16	12	18
P.H.F	0.8500	0.7083	0.8000	0.5278	0.3929	0.6389	0.7500	0.5909	0.7500	0.4000	0.7895	0.6014

AECOM

7:00-8:00 AM	4	11	4	11	9	23	5	20	2	16	5	16.2
7:15-8:15 AM	7	11	4	19	9	18	7	26	1	15	5.6	17.8
7:30-8:30 AM	12	12	6	19	8	18	9	24	4	13	7.8	17.2
7:45-8:45 AM	13	8	6	16	10	11	12	18	8	5	9.8	11.6
8:00-9:00 AM	16	8	6	14	10	13	10	15	9	6	10.2	11.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002112
Route: BOWDOIN ST
Location: W. of STANFORD AVE

Site Ref: 13
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	31	4	25	1	30	0	33	3	27	2	29
00:15	0	29	3	26	4	31	3	20	4	33	3	28
00:30	3	25	3	25	2	29	2	27	0	34	2	28
00:45	2	28	2	39	1	29	0	34	2	30	1	32
01:00	0	22	1	27	0	33	3	27	2	26	1	27
01:15	3	22	0	28	2	23	1	19	0	23	1	23
01:30	2	17	0	29	1	21	1	18	1	36	1	24
01:45	0	28	1	24	1	27	0	22	1	20	1	24
02:00	0	17	0	20	2	22	1	30	0	20	1	22
02:15	0	15	0	17	0	27	0	18	0	23	0	20
02:30	1	15	1	28	0	19	0	33	0	27	0	24
02:45	0	21	1	18	1	24	0	29	0	17	0	22
03:00	0	28	1	27	2	18	1	20	2	34	1	25
03:15	0	35	1	19	0	24	1	25	1	23	1	25
03:30	0	29	1	26	0	32	1	23	0	29	0	28
03:45	0	26	1	26	2	21	1	33	2	28	1	27
04:00	1	21	2	21	0	33	1	23	2	28	1	25
04:15	1	28	2	25	2	28	0	22	1	28	1	26
04:30	4	23	3	26	3	23	4	34	3	29	3	27
04:45	2	22	3	34	3	24	2	39	1	33	2	30
05:00	9	19	1	35	2	21	2	36	4	34	4	29
05:15	8	17	16	28	10	20	13	19	5	29	10	23
05:30	19	28	21	22	27	27	21	24	17	32	21	27
05:45	46	27	38	30	35	26	35	25	39	32	39	28
06:00	20	27	29	21	32	27	25	22	24	30	26	25
06:15	21	28	35	24	25	22	28	29	19	33	26	27
06:30	27	18	29	23	36	19	29	25	26	18	29	21
06:45	31	28	32	27	34	27	29	23	28	33	31	28
07:00	25	15	26	15	23	25	33	21	24	23	26	20
07:15	26	12	37	15	31	13	39	20	30	14	33	15
07:30	43	12	47	24	49	18	44	19	45	35	46	22
07:45	48	15	52	13	59	18	62	13	55	21	55	16
08:00	41	12	39	12	42	15	39	12	40	12	40	13
08:15	46	11	66	14	48	14	48	10	31	17	48	13
08:30	46	5	33	16	46	17	34	13	38	19	39	14
08:45	48	9	40	14	39	7	39	11	47	22	43	13
09:00	23	8	32	14	24	7	30	8	30	14	28	10
09:15	30	10	31	12	24	7	31	10	23	9	28	10
09:30	30	5	35	4	21	9	38	9	41	6	33	7
09:45	25	4	36	8	46	8	49	6	30	12	37	8
10:00	23	2	31	4	29	3	30	8	30	14	29	6
10:15	24	2	32	4	33	3	19	6	31	2	28	3
10:30	17	1	27	3	20	7	20	5	18	1	20	3
10:45	35	0	36	1	27	3	40	5	32	8	34	3
11:00	25	5	19	2	24	5	25	1	27	4	24	3
11:15	31	2	25	2	28	1	22	2	20	6	25	3
11:30	19	1	28	1	29	4	28	3	29	4	27	3
11:45	37	0	32	2	26	2	30	2	34	2	32	2
Totals	844	805	935	900	896	893	904	916	842	1034	884	910
Day Total	1649		1835		1789		1820		1876		1794	
AM Pct	51.2%		51.0%		50.1%		49.7%		44.9%		49.3%	
Peak Hour	7:45	15:00	7:30	12:45	7:30	12:15	7:30	16:15	7:30	16:45	7:30	12:00
Peak Volume	181	118	204	123	198	122	193	131	171	128	189	117
P.H.F	0.9427	0.8429	0.7727	0.7885	0.8390	0.9242	0.7782	0.8397	0.7773	0.9412	0.8551	0.9141

AECOM

4:00-5:00 PM	142	94	162	106	162	108	178	118	154	118	160	108.8
4:15-5:15 PM	158	92	175	120	181	96	184	131	170	124	173.6	112.6
4:30-5:30 PM	178	81	204	123	198	88	193	128	171	125	188.8	109
4:45-5:45 PM	181	86	190	119	195	92	183	118	164	128	182.6	108.6
5:00-6:00 PM	181	91	178	115	175	94	160	104	156	127	170	106.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002113
Route: BOWDOIN ST
Location: W. of STANFORD AVE

Site Ref: 13
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	30	2	20	1	28	1	30	3	34	2	28
00:15	1	33	3	32	2	23	1	19	2	32	2	28
00:30	2	20	2	33	1	20	1	17	1	30	1	24
00:45	2	36	4	26	2	36	1	23	0	40	2	32
01:00	1	28	2	30	0	33	3	33	1	32	1	31
01:15	2	18	1	31	1	45	2	21	3	26	2	28
01:30	1	22	2	33	2	25	0	27	0	37	1	29
01:45	0	20	2	33	1	24	3	26	0	29	1	26
02:00	1	18	1	32	2	40	1	39	0	44	1	35
02:15	0	45	1	29	1	40	0	40	2	33	1	37
02:30	0	51	0	67	0	53	1	57	0	55	0	57
02:45	0	43	1	37	2	46	1	42	1	43	1	42
03:00	0	42	1	44	0	50	0	41	0	35	0	42
03:15	0	47	0	72	0	67	0	75	0	57	0	64
03:30	1	51	1	53	1	50	1	61	3	59	1	55
03:45	0	50	1	44	0	47	0	55	0	39	0	47
04:00	0	45	0	46	0	43	1	47	0	46	0	45
04:15	0	42	0	56	0	47	0	42	0	39	0	45
04:30	0	55	0	59	1	51	0	45	0	53	0	53
04:45	0	47	0	47	0	44	1	42	0	39	0	44
05:00	0	65	2	58	0	62	0	55	0	59	0	60
05:15	2	52	1	65	2	51	1	52	0	39	1	52
05:30	1	43	4	71	1	50	0	47	3	29	2	48
05:45	3	32	5	23	4	35	4	36	2	31	4	31
06:00	3	26	3	31	1	32	3	31	1	30	2	30
06:15	4	20	7	30	10	35	7	33	5	33	7	30
06:30	8	28	5	24	4	36	4	28	8	31	6	29
06:45	5	29	7	17	8	21	10	25	7	31	7	25
07:00	10	20	8	15	11	18	8	18	5	25	8	19
07:15	10	12	3	16	8	17	8	15	15	35	9	19
07:30	10	13	10	9	11	16	17	18	16	18	13	15
07:45	13	6	14	18	15	12	18	12	16	18	15	13
08:00	19	11	29	24	19	11	17	7	21	14	21	13
08:15	13	13	20	22	21	14	16	11	22	18	18	16
08:30	19	16	25	18	21	16	13	9	20	14	20	15
08:45	20	6	20	7	23	7	24	10	17	11	21	8
09:00	20	11	10	9	21	10	16	16	25	16	18	12
09:15	15	11	19	5	18	12	16	6	11	16	16	10
09:30	17	8	24	6	21	7	14	14	18	6	19	8
09:45	25	4	19	7	16	6	15	7	26	8	20	6
10:00	20	5	22	6	16	10	17	6	19	5	19	6
10:15	17	1	19	5	19	4	12	1	15	9	16	4
10:30	10	7	27	1	22	4	24	7	23	3	21	4
10:45	18	4	14	2	31	4	19	3	34	2	23	3
11:00	25	3	30	2	28	5	26	6	24	5	27	4
11:15	22	4	21	2	29	3	29	1	33	7	27	3
11:30	29	1	33	1	25	3	33	2	23	1	29	2
11:45	25	3	28	4	35	2	29	4	18	6	27	4
Totals	395	1197	453	1322	457	1315	418	1262	443	1322	433	1284
Day Total	1592		1775		1772		1680		1765		1717	
AM Pct	24.8%		25.5%		25.8%		24.9%		25.1%		25.2%	
Peak Hour	11:30	16:30	11:30	16:45	11:00	14:30	11:15	15:15	10:30	15:15	11:30	15:15
Peak Volume	117	219	113	241	117	216	121	238	114	201	112	211
P.H.F	0.8864	0.8423	0.8561	0.8486	0.8357	0.8060	0.9167	0.7933	0.8382	0.8517	0.9773	0.8286
AECOM												
7:00-8:00 AM	43	189	35	208	45	185	51	176	52	177	45	187
7:15-8:15 AM	52	209	56	220	53	204	60	184	68	190	57.8	201.4
7:30-8:30 AM	55	219	73	229	66	208	68	194	75	190	67.4	208
7:45-8:45 AM	64	207	88	241	76	207	64	196	79	166	74.2	203.4
8:00-9:00 AM	71	192	94	217	84	198	70	190	80	158	79.8	191

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002114
Route: RAIMUNDO WAY
Location: W. of STANFORD AVE

Site Ref: 14
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	14	0	9	0	12	0	11	0	12	0	12
00:15	0	10	0	15	0	6	0	7	0	15	0	11
00:30	0	9	0	6	0	15	0	10	0	9	0	10
00:45	0	11	0	9	0	6	0	6	0	10	0	8
01:00	1	7	0	9	0	13	0	11	1	9	0	10
01:15	0	7	0	5	0	7	0	14	0	11	0	9
01:30	0	11	0	5	0	11	0	10	0	8	0	9
01:45	0	9	0	14	0	6	0	10	0	10	0	10
02:00	0	13	0	7	0	23	0	11	0	17	0	14
02:15	0	10	0	10	0	11	0	7	0	9	0	9
02:30	0	7	1	4	2	9	2	14	1	9	1	9
02:45	0	8	0	8	0	6	0	11	0	16	0	10
03:00	0	9	0	8	0	12	0	9	0	9	0	9
03:15	0	8	0	21	0	10	0	13	0	17	0	14
03:30	0	11	0	8	0	13	0	8	0	7	0	9
03:45	0	10	0	13	0	11	0	12	0	14	0	12
04:00	0	6	0	17	0	9	0	9	0	8	0	10
04:15	0	10	0	15	0	11	0	23	0	12	0	14
04:30	0	10	0	7	0	7	0	7	0	6	0	7
04:45	1	8	0	11	0	7	0	6	0	7	0	8
05:00	0	11	0	11	0	5	1	11	0	6	0	9
05:15	1	7	0	13	0	7	0	11	1	13	0	10
05:30	0	6	0	12	0	9	0	9	0	8	0	9
05:45	0	11	0	10	1	16	1	11	0	3	0	10
06:00	0	6	1	7	0	7	0	8	0	18	0	9
06:15	0	9	1	6	2	10	1	11	0	8	1	9
06:30	2	8	1	2	4	7	1	9	1	6	2	6
06:45	2	10	3	6	2	7	4	5	5	10	3	8
07:00	3	5	3	11	3	4	4	8	3	12	3	8
07:15	7	5	5	3	6	5	1	3	6	4	5	4
07:30	7	5	10	4	10	4	5	4	2	4	7	4
07:45	6	6	5	4	7	5	7	4	6	5	6	5
08:00	6	4	13	2	15	3	9	3	8	5	10	3
08:15	7	2	6	1	3	2	11	6	7	3	7	3
08:30	7	4	9	4	8	4	5	1	8	2	7	3
08:45	5	2	8	2	8	5	11	0	7	1	8	2
09:00	4	3	6	4	7	2	6	2	12	3	7	3
09:15	8	3	8	0	11	2	1	1	3	2	6	2
09:30	7	1	7	0	7	0	11	3	8	0	8	1
09:45	6	3	10	0	5	0	8	1	4	1	7	1
10:00	8	0	9	1	8	0	9	2	5	4	8	1
10:15	15	0	9	1	8	1	11	1	2	1	9	1
10:30	4	0	8	0	9	0	7	0	7	2	7	0
10:45	10	1	7	1	9	0	9	0	13	4	10	1
11:00	8	0	7	0	13	0	10	0	6	1	9	0
11:15	3	0	10	0	8	0	8	1	11	0	8	0
11:30	5	0	13	1	11	1	8	2	6	1	9	1
11:45	12	0	10	1	10	1	15	0	10	1	11	1
Totals	145	300	170	308	177	312	166	326	143	343	160	318
Day Total	445		478		489		492		486		478	
AM Pct	32.6%		35.6%		36.2%		33.7%		29.4%		33.5%	
Peak Hour	11:45	12:00	11:30	15:15	11:45	13:30	11:45	15:30	11:45	14:00	11:45	15:30
Peak Volume	45	44	47	59	43	51	43	52	46	51	43	45
P.H.F	0.8036	0.7857	0.7833	0.7024	0.7167	0.5543	0.7167	0.5652	0.7667	0.7500	0.9353	0.7993

AECOM

4:00-5:00 PM	23	34	23	50	26	34	17	45	17	33	21	39.2
4:15-5:15 PM	26	39	33	44	38	30	22	47	22	31	28.2	38.2
4:30-5:30 PM	26	36	34	42	35	26	32	35	23	32	30	34.2
4:45-5:45 PM	26	32	33	47	33	28	32	37	29	34	30.6	35.6
5:00-6:00 PM	25	35	36	46	34	37	36	42	30	30	32.2	38

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002115
Route: RAIMUNDO WAY
Location: W. of STANFORD AVE

Site Ref: 14
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	3	1	14	2	13	0	9	0	8	1	9
00:15	0	10	0	5	0	4	0	11	0	9	0	8
00:30	0	7	0	12	0	8	0	13	0	10	0	10
00:45	0	10	0	7	0	5	0	11	0	8	0	8
01:00	0	7	0	9	0	8	0	8	1	9	0	8
01:15	0	7	0	3	0	8	1	13	0	13	0	9
01:30	0	6	0	10	0	12	0	8	0	6	0	8
01:45	0	11	0	7	0	9	0	5	0	6	0	8
02:00	0	8	0	4	0	13	0	11	0	2	0	8
02:15	0	7	0	7	0	8	0	9	0	5	0	7
02:30	0	9	0	5	0	5	0	5	0	11	0	7
02:45	0	1	0	2	0	10	0	13	0	10	0	7
03:00	0	5	0	7	0	11	0	8	0	11	0	8
03:15	0	6	0	11	0	10	0	5	0	6	0	8
03:30	1	7	0	7	0	5	0	10	0	4	0	7
03:45	0	7	0	10	0	7	0	13	0	11	0	10
04:00	0	10	0	12	0	4	0	12	0	6	0	9
04:15	0	8	0	7	0	7	0	7	0	6	0	7
04:30	0	5	0	6	0	11	0	6	0	4	0	6
04:45	0	10	0	4	0	3	0	8	0	9	0	7
05:00	0	9	0	10	0	12	1	12	0	8	0	10
05:15	0	11	0	10	0	6	0	10	0	10	0	9
05:30	1	7	0	10	0	8	0	14	0	10	0	10
05:45	1	4	2	13	2	6	1	11	1	10	1	9
06:00	2	4	3	10	1	9	2	9	2	11	2	9
06:15	0	8	1	3	2	7	0	12	1	9	1	8
06:30	1	5	3	3	0	7	1	9	3	10	2	7
06:45	1	5	2	14	3	6	3	9	2	9	2	9
07:00	2	8	1	10	1	3	3	5	2	6	2	6
07:15	5	7	4	5	9	8	4	6	2	11	5	7
07:30	5	3	6	4	10	14	7	4	5	10	7	7
07:45	10	4	11	3	18	1	11	1	9	5	12	3
08:00	13	7	10	7	8	3	9	2	11	0	10	4
08:15	17	1	9	2	12	4	21	4	16	4	15	3
08:30	7	1	8	1	5	3	4	1	9	4	7	2
08:45	9	0	13	3	10	1	10	1	6	2	10	1
09:00	6	0	14	4	6	2	8	3	12	4	9	3
09:15	5	3	6	3	12	0	6	0	9	3	8	2
09:30	4	1	5	2	10	2	10	2	4	3	7	2
09:45	8	1	8	1	18	2	6	2	8	3	10	2
10:00	5	1	10	0	13	0	10	3	6	3	9	1
10:15	8	2	4	5	7	2	3	2	8	3	6	3
10:30	8	0	11	1	9	2	9	0	11	3	10	1
10:45	7	0	8	0	10	0	5	1	5	2	7	1
11:00	13	0	8	1	9	0	8	1	4	3	8	1
11:15	4	2	7	1	9	1	11	0	8	2	8	1
11:30	7	2	9	0	9	1	7	1	7	2	8	1
11:45	12	0	6	2	9	0	7	0	5	2	8	1
Totals	162	240	170	277	204	271	168	310	157	306	172	281
Day Total	402		447		475		478		463		453	
AM Pct	40.3%		38.0%		42.9%		35.1%		33.9%		38.0%	
Peak Hour	7:45	16:45	8:15	17:00	9:15	13:15	7:30	17:00	7:45	17:15	7:30	17:00
Peak Volume	47	37	44	43	53	42	48	47	45	41	44	38
P.H.F	0.6912	0.8409	0.7857	0.8269	0.7361	0.8077	0.5714	0.8393	0.7031	0.9318	0.7267	0.9363
AECOM												
7:00-8:00 AM	22	33	22	29	38	25	25	33	18	25	25	29
7:15-8:15 AM	33	32	31	27	45	33	31	33	27	27	33.4	30.4
7:30-8:30 AM	45	35	36	30	48	32	48	36	41	31	43.6	32.8
7:45-8:45 AM	47	37	38	34	43	29	45	44	45	37	43.6	36.2
8:00-9:00 AM	46	31	40	43	35	32	44	47	42	38	41.4	38.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002116
Route: SANTA MARIA AVE
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 15
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	3	0	1	0	3	0	0	1	3	0	2
00:15	0	1	0	2	0	2	0	2	0	5	0	2
00:30	0	5	0	1	0	2	0	3	0	7	0	4
00:45	0	3	0	0	0	3	0	2	0	5	0	3
01:00	0	1	0	0	0	2	0	0	0	1	0	1
01:15	0	2	0	0	0	4	0	7	0	4	0	3
01:30	0	4	0	2	0	2	0	4	0	2	0	3
01:45	0	1	0	3	0	5	0	0	0	0	0	2
02:00	0	2	0	4	0	2	0	3	0	5	0	3
02:15	0	1	0	2	0	0	0	5	0	2	0	2
02:30	0	0	0	1	0	0	0	2	0	2	0	1
02:45	0	0	0	0	0	2	0	0	0	1	0	1
03:00	0	1	0	0	0	2	0	2	0	0	0	1
03:15	0	0	0	1	0	6	0	1	0	3	0	2
03:30	0	1	0	0	0	1	0	4	0	8	0	3
03:45	0	0	0	1	0	2	0	1	0	3	0	1
04:00	0	2	0	2	0	2	0	1	0	4	0	2
04:15	0	1	0	1	0	4	0	2	0	2	0	2
04:30	0	1	0	2	0	3	0	2	0	2	0	2
04:45	0	1	0	0	0	0	0	1	0	1	0	1
05:00	0	0	0	2	0	2	0	6	0	3	0	3
05:15	0	1	0	2	0	1	0	4	0	0	0	2
05:30	2	0	0	0	0	0	0	4	0	3	0	1
05:45	0	5	0	1	0	2	1	5	0	2	0	3
06:00	0	1	0	3	0	1	0	1	0	1	0	1
06:15	5	2	1	0	0	1	2	2	0	2	2	1
06:30	2	4	2	0	3	1	1	2	1	1	2	2
06:45	4	3	2	0	3	2	2	2	2	1	3	2
07:00	2	1	4	2	6	0	3	0	2	2	3	1
07:15	3	0	2	3	3	0	1	0	6	0	3	1
07:30	4	1	0	1	2	1	0	2	2	1	2	1
07:45	4	4	2	1	2	2	3	0	5	1	3	2
08:00	4	2	2	1	3	1	7	0	5	0	4	1
08:15	4	0	2	0	3	0	4	0	8	2	4	0
08:30	1	0	2	0	2	0	3	1	4	2	2	1
08:45	1	0	5	0	2	0	4	1	1	1	3	0
09:00	0	0	3	0	4	1	1	0	4	0	2	0
09:15	2	1	1	1	1	1	4	4	0	0	2	1
09:30	0	0	3	1	3	0	0	0	0	0	1	0
09:45	5	0	6	1	5	1	4	0	2	0	4	0
10:00	0	0	1	0	4	3	3	0	7	0	3	1
10:15	1	1	3	0	3	0	3	0	3	0	3	0
10:30	4	0	3	0	6	0	1	0	0	0	3	0
10:45	1	0	1	0	5	0	4	0	2	0	3	0
11:00	0	0	2	0	4	0	1	0	1	0	2	0
11:15	0	0	3	0	5	0	1	0	3	0	2	0
11:30	4	0	3	2	1	0	4	0	6	0	4	0
11:45	1	0	4	0	2	0	8	0	6	0	4	0
Totals	54	56	57	44	72	67	65	76	71	82	64	65
Day Total	110		101		139		141		153		129	
AM Pct	49.1%		56.4%		51.8%		46.1%		46.4%		49.5%	
Peak Hour	7:30	12:00	9:00	13:30	10:30	13:00	8:00	17:00	7:45	12:00	7:45	13:15
Peak Volume	16	12	13	11	20	13	18	19	22	20	14	11
P.H.F	1.0000	0.6000	0.5417	0.6875	0.8333	0.6500	0.6429	0.7917	0.6875	0.7143	0.8333	0.8235

AECOM

4:00-5:00 PM	13	5	8	5	13	9	7	6	15	9	11	6.8
4:15-5:15 PM	15	3	6	5	10	9	11	11	18	8	12	7.2
4:30-5:30 PM	16	3	6	6	10	6	14	13	20	6	13.2	6.8
4:45-5:45 PM	13	2	8	4	10	3	17	15	22	7	14	6.2
5:00-6:00 PM	10	6	11	5	10	5	18	19	18	8	13.4	8.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002117
Route: SANTA MARIA AVE
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 15
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	4	0	4	0	5	0	1	0	6	0	4
00:15	0	1	0	3	0	4	0	1	0	3	0	2
00:30	0	5	0	0	0	2	0	1	0	1	0	2
00:45	0	0	0	3	0	3	0	2	0	1	0	2
01:00	0	1	0	1	0	2	0	0	0	1	0	1
01:15	0	0	0	0	0	5	0	3	0	2	0	2
01:30	0	3	0	0	0	1	0	3	0	2	0	2
01:45	0	2	0	0	0	0	0	7	0	1	0	2
02:00	0	2	0	4	0	4	0	1	0	2	0	3
02:15	0	1	0	1	0	3	0	0	0	4	0	2
02:30	0	0	0	1	0	0	0	1	0	0	0	0
02:45	0	0	0	1	0	0	0	1	0	2	0	1
03:00	0	2	0	0	0	0	0	5	0	7	0	3
03:15	0	1	0	4	0	6	0	0	0	6	0	3
03:30	0	0	0	0	0	3	0	2	0	0	0	1
03:45	0	0	0	1	0	1	0	2	0	3	0	1
04:00	0	2	0	2	0	5	0	0	0	1	0	2
04:15	0	2	0	2	0	4	0	2	0	2	0	2
04:30	0	0	0	3	0	5	0	2	0	4	0	3
04:45	0	1	0	0	0	1	0	1	0	0	0	1
05:00	0	1	0	3	0	2	1	2	0	1	0	2
05:15	0	1	0	3	1	0	2	2	0	1	1	1
05:30	0	1	0	1	0	2	0	3	0	2	0	2
05:45	0	0	0	3	0	0	0	0	0	1	0	1
06:00	0	0	0	3	0	0	2	1	0	2	0	1
06:15	0	0	0	0	0	0	0	0	0	4	0	1
06:30	0	0	0	0	0	0	0	2	3	1	1	1
06:45	0	2	0	0	0	2	0	0	0	0	0	1
07:00	1	1	1	2	1	0	0	0	2	0	1	1
07:15	1	1	1	0	0	0	3	2	4	2	2	1
07:30	3	3	0	2	0	2	0	1	1	1	1	2
07:45	0	0	2	0	1	0	0	0	3	0	1	0
08:00	1	1	2	1	1	2	1	1	0	1	1	1
08:15	0	0	2	1	0	2	0	0	2	0	1	1
08:30	4	1	1	0	2	0	0	0	0	3	1	1
08:45	2	0	0	0	1	1	0	0	2	1	1	0
09:00	0	0	3	0	0	0	0	0	0	1	1	0
09:15	0	0	3	0	2	1	1	0	2	0	2	0
09:30	1	0	0	0	2	0	0	0	0	0	1	0
09:45	1	0	0	0	2	1	1	0	2	1	1	0
10:00	0	0	0	0	2	1	0	0	0	0	0	0
10:15	1	1	0	0	1	0	1	0	2	0	1	0
10:30	1	0	0	0	4	0	2	0	1	0	2	0
10:45	1	0	4	0	2	0	6	0	2	0	3	0
11:00	0	0	0	0	2	0	1	0	1	0	1	0
11:15	1	0	0	0	0	0	2	0	1	0	1	0
11:30	1	0	0	0	3	0	1	0	1	0	1	0
11:45	0	0	2	0	1	0	0	0	2	0	1	0
Totals	19	40	21	49	28	70	24	49	31	70	25	56
Day Total	59		70		98		73		101		80	
AM Pct	32.2%		30.0%		28.6%		32.9%		30.7%		30.7%	
Peak Hour	11:45	12:00	11:30	12:00	11:30	15:15	10:30	13:15	11:30	15:00	11:45	12:00
Peak Volume	10	10	9	10	13	15	11	14	12	16	9	10
P.H.F	0.5000	0.5000	0.5625	0.6250	0.6500	0.6250	0.4583	0.5000	0.5000	0.5714	0.5750	0.6250

AECOM

7:00-8:00 AM	5	5	4	7	2	15	3	5	10	7	5	7.8
7:15-8:15 AM	5	4	5	8	2	12	4	7	8	7	4.8	7.6
7:30-8:30 AM	4	3	6	9	2	8	1	7	6	6	3.8	6.6
7:45-8:45 AM	5	4	7	7	4	5	1	8	5	4	4.4	5.6
8:00-9:00 AM	7	3	5	10	4	4	1	7	4	5	4.2	5.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002118
Route: CAMPUS DR EAST
Location: E. of JUNIPERO SERRA BLVD

Site Ref: 16
Direction: IN

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	3	17	0	21	0	23	0	24	0	20	1	21
00:15	1	15	2	23	1	19	1	14	2	19	1	18
00:30	1	17	0	22	2	17	0	26	1	24	1	21
00:45	0	12	0	30	0	21	1	16	1	17	0	19
01:00	1	14	1	10	0	8	0	15	3	23	1	14
01:15	3	12	2	8	1	16	1	15	1	20	2	14
01:30	1	11	0	17	1	13	0	14	0	16	0	14
01:45	0	12	0	14	1	29	0	12	0	24	0	18
02:00	0	21	0	17	0	12	0	14	0	0	0	16
02:15	1	11	0	16	0	9	0	19	0	0	0	14
02:30	0	13	0	19	1	20	0	15	1	0	0	17
02:45	0	14	2	13	0	16	2	14	0	0	1	14
03:00	0	9	0	20	0	19	0	20	0	0	0	17
03:15	0	12	0	25	0	9	0	15	0	0	0	15
03:30	0	18	1	8	0	13	0	23	0	0	0	16
03:45	0	15	0	20	0	17	0	20	0	0	0	18
04:00	0	15	0	20	0	19	0	20	0	0	0	19
04:15	0	19	0	20	0	17	0	21	0	0	0	19
04:30	1	8	1	14	0	16	0	12	0	0	0	13
04:45	1	16	2	19	0	13	0	23	0	0	1	18
05:00	1	13	2	15	1	16	1	17	0	0	1	15
05:15	4	18	2	21	3	18	2	19	6	3	3	19
05:30	4	14	3	20	5	24	5	23	1	4	4	20
05:45	11	14	7	28	8	19	9	18	6	8	8	20
06:00	2	22	5	15	2	11	10	19	5	5	5	17
06:15	2	12	11	28	8	19	3	11	5	6	6	18
06:30	6	9	8	9	10	25	8	18	7	8	8	15
06:45	12	14	11	15	13	19	12	12	8	11	11	15
07:00	15	10	8	13	13	22	14	17	9	12	12	16
07:15	15	13	16	9	23	15	17	14	28	20	20	13
07:30	14	17	14	12	13	9	20	10	25	17	17	12
07:45	33	15	20	9	24	8	28	8	27	26	26	10
08:00	12	11	18	7	21	8	19	4	15	17	17	8
08:15	31	3	28	8	35	3	25	7	21	28	28	5
08:30	33	6	29	5	20	10	21	5	26	26	26	7
08:45	28	10	23	11	28	14	20	11	20	24	24	12
09:00	16	3	22	8	21	0	20	7	21	20	20	5
09:15	13	8	21	8	14	4	21	7	15	17	17	7
09:30	22	5	17	5	27	5	12	8	17	19	19	6
09:45	20	3	19	4	15	10	25	7	15	19	19	6
10:00	19	5	14	6	10	2	13	11	21	15	15	6
10:15	16	6	17	8	16	7	16	11	16	16	16	8
10:30	11	1	21	2	19	5	12	2	17	16	16	3
10:45	19	2	27	2	16	3	20	6	11	19	19	3
11:00	16	3	15	3	14	1	19	4	19	17	17	3
11:15	19	4	15	2	15	2	18	3	14	16	16	3
11:30	21	1	17	0	20	0	18	0	16	18	18	0
11:45	17	2	19	0	15	0	24	0	27	20	20	1
Totals	445	525	440	629	436	605	437	631	427	163	437	603
Day Total	970		1069		1041		1068		590		1040	
AM Pct	45.9%		41.2%		41.9%		40.9%		72.4%		42.0%	
Peak Hour	7:45	17:15	8:15	12:00	8:00	18:15	7:45	15:30	7:15	12:30	8:15	12:00
Peak Volume	109	68	102	96	104	85	93	84	95	84	98	79
P.H.F	0.8258	0.7727	0.8793	0.8000	0.7429	0.8500	0.8304	0.9130	0.8482	0.8750	0.8714	0.9363

AECOM

4:00-5:00 PM	77	58	58	73	73	65	79	76	89	0	75	68
4:15-5:15 PM	74	56	68	68	81	62	84	73	95	0	80.4	64.75
4:30-5:30 PM	90	55	80	69	93	63	92	71	88	0	88.6	64.5
4:45-5:45 PM	109	61	95	75	100	71	93	82	89	0	97.2	72.25
5:00-6:00 PM	104	59	98	84	104	77	85	77	82	0	94.6	74.25

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002119
Route: CAMPUS DR EAST
Location: E. of JUNIPERO SERRA BLVD

Site Ref: 16
Direction: OUT

Count Date	9/28/2020		9/29/2020		9/30/2020		10/1/2020		10/2/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	14	1	16	1	16	1	17	0	30	1	19
00:15	1	14	1	18	0	21	0	18	0	17	0	18
00:30	0	23	1	18	2	15	2	15	1	32	1	21
00:45	0	29	0	23	0	30	0	23	3	27	1	26
01:00	1	12	0	29	3	24	0	22	0	31	1	24
01:15	2	24	1	19	1	17	0	15	0	17	1	18
01:30	1	12	0	18	1	14	0	24	0	35	0	21
01:45	0	16	1	20	0	18	1	5	0	23	0	16
02:00	1	15	1	23	3	18	4	22	1		2	20
02:15	0	16	0	14	0	22	1	27	0		0	20
02:30	0	16	1	23	0	32	0	31	0		0	26
02:45	1	19	0	25	0	20	0	26	0		0	23
03:00	1	16	1	15	0	29	0	21	0		0	20
03:15	0	26	0	24	0	30	0	28	0		0	27
03:30	0	26	1	22	0	32	0	35	1		0	29
03:45	1	22	0	18	0	21	0	30	0		0	23
04:00	0	23	1	22	0	23	0	28	0		0	24
04:15	1	21	0	25	1	24	0	30	0		0	25
04:30	0	20	0	36	0	31	0	38	0		0	31
04:45	0	24	1	30	2	32	1	25	1		1	28
05:00	0	24	0	27	3	31	2	37	1		1	30
05:15	1	29	1	31	0	32	1	29	0		1	30
05:30	1	27	0	28	0	26	2	32	0		1	28
05:45	1	23	1	13	0	27	2	23	3		1	22
06:00	1	20	6	25	3	23	4	16	1		3	21
06:15	3	13	5	14	2	16	3	18	3		3	15
06:30	8	15	6	22	4	16	5	11	4		5	16
06:45	2	11	10	10	6	14	7	12	5		6	12
07:00	7	21	7	10	7	19	8	22	8		7	18
07:15	10	8	9	15	5	10	15	15	8		9	12
07:30	12	8	5	11	14	13	8	24	7		9	14
07:45	12	8	16	12	8	10	13	8	11		12	10
08:00	12	13	10	17	13	11	14	12	8		11	13
08:15	8	11	14	11	14	13	4	6	9		10	10
08:30	17	2	12	8	13	12	8	8	9		12	8
08:45	22	11	17	10	14	8	13	6	12		16	9
09:00	22	7	19	4	12	6	20	9	9		16	7
09:15	9	5	21	2	16	3	11	9	15		14	5
09:30	12	3	15	5	27	3	14	4	13		16	4
09:45	18	3	6	3	16	2	10	7	12		12	4
10:00	21	1	16	5	13	4	17	4	18		17	4
10:15	18	1	11	1	13	6	19	1	21		16	2
10:30	20	2	22	1	9	5	16	5	16		17	3
10:45	10	4	20	4	19	2	7	6	24		16	4
11:00	14	3	16	1	14	2	34	3	20		20	2
11:15	11	3	15	4	16	3	14	3	19		15	3
11:30	19	1	14	1	19	2	22	0	25		20	1
11:45	21	2	16	2	16	0	15	1	26		19	1
Totals	323	667	321	735	310	788	318	811	314	212	317	763
Day Total	990		1056		1098		1129		526		1080	
AM Pct	32.6%		30.4%		28.2%		28.2%		59.7%		29.4%	
Peak Hour	9:45	16:45	10:30	16:30	9:15	16:30	11:00	16:15	11:45	12:45	11:45	16:30
Peak Volume	77	104	73	124	72	126	85	130	105	110	76	119
P.H.F	0.9167	0.8966	0.8295	0.8611	0.6667	0.9844	0.6250	0.8553	0.8203	0.7857	0.9175	0.9520

AECOM

4:00-5:00 PM	41	88	37	113	34	110	44	121	34	0	38	108
4:15-5:15 PM	46	89	40	118	40	118	50	130	34	0	42	113.75
4:30-5:30 PM	44	97	45	124	49	126	39	129	35	0	42.4	119
4:45-5:45 PM	49	104	52	116	48	121	39	123	37	0	45	116
5:00-6:00 PM	59	103	53	99	54	116	39	121	38	0	48.6	109.75

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002089
Route: CAMPUS DR WEST
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 1
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	41	1	39	2	49	3	48	2	51	1.6	45.6
00:15	1	50	1	41	3	52	2	37	1	57	1.6	47.4
00:30	1	49	2	53	2	68	1	42	2	64	1.6	55.2
00:45	1	46	0	40	1	60	1	64	1	47	0.8	51.4
01:00	0	35	2	52	3	73	0	54	2	59	1.4	54.6
01:15	0	34	0	48	3	45	3	51	1	56	1.4	46.8
01:30	1	39	2	42	2	53	0	58	1	57	1.2	49.8
01:45	1	35	2	44	0	61	2	47	5	76	2	52.6
02:00	2	51	2	48	2	50	3	56	2	67	2.2	54.4
02:15	1	37	1	51	2	64	1	47	0	93	1	58.4
02:30	0	28	1	43	1	63	2	47	1	80	1	52.2
02:45	0	36	0	54	1	41	0	43	1	81	0.4	51
03:00	1	35	1	45	1	57	1	45	1	64	1	49.2
03:15	2	38	1	35	1	30	1	43	2	67	1.4	42.6
03:30	3	25	5	47	4	45	6	41	3	72	4.2	46
03:45	4	50	1	53	3	49	4	63	6	59	3.6	54.8
04:00	3	37	6	63	6	61	2	50	3	68	4	55.8
04:15	6	26	7	34	4	49	3	54	5	61	5	44.8
04:30	3	29	6	47	5	40	8	36	5	46	5.4	39.6
04:45	12	53	14	48	9	49	10	59	10	49	11	51.6
05:00	14	33	12	43	12	31	10	33	10	43	11.6	36.6
05:15	21	35	26	40	23	35	22	43	28	45	24	39.6
05:30	34	38	42	43	36	42	32	46	33	48	35.4	43.4
05:45	62	49	68	51	67	48	69	55	55	52	64.2	51
06:00	52	32	59	37	72	44	61	38	56	58	60	41.8
06:15	71	44	89	29	66	37	72	46	70	33	73.6	37.8
06:30	58	39	75	26	69	30	67	34	55	34	64.8	32.6
06:45	62	26	80	34	75	29	71	53	67	28	71	34
07:00	77	26	63	24	46	22	55	33	58	26	59.8	26.2
07:15	76	27	67	18	75	24	81	23	75	31	74.8	24.6
07:30	80	16	83	11	78	15	87	9	58	20	77.2	14.2
07:45	79	20	83	30	88	14	90	23	107	24	89.4	22.2
08:00	83	21	91	9	71	13	78	25	86	18	81.8	17.2
08:15	74	16	65	10	69	19	80	11	58	6	69.2	12.4
08:30	61	10	76	5	97	8	62	19	91	7	77.4	9.8
08:45	73	10	70	16	75	8	60	16	78	6	71.2	11.2
09:00	60	5	69	5	76	7	41	8	57	10	60.6	7
09:15	48	11	65	9	60	10	70	7	61	11	60.8	9.6
09:30	49	5	51	7	62	5	49	5	44	12	51	6.8
09:45	58	9	52	4	62	7	57	5	70	11	59.8	7.2
10:00	49	6	51	5	54	8	55	12	48	17	51.4	9.6
10:15	37	5	52	12	51	10	63	12	52	6	51	9
10:30	55	3	47	3	38	4	45	7	49	8	46.8	5
10:45	53	3	46	2	46	3	56	2	53	2	50.8	2.4
11:00	34	1	43	4	53	6	40	5	45	4	43	4
11:15	34	2	39	5	45	4	46	6	51	5	43	4.4
11:30	48	3	43	1	39	2	39	1	34	3	40.6	2
11:45	34	3	39	3	54	0	55	3	51	0	46.6	1.8
Totals	1578	1272	1701	1413	1714	1544	1666	1565	1654	1842	1663	1527
Day Total	2850		3114		3258		3231		3496		3190	
AM Pct	55.4%		54.6%		52.6%		51.6%		47.3%		52.1%	
Peak Hour	7:15	12:00	7:15	15:15	7:45	12:15	7:15	12:45	7:45	14:00	7:15	13:45
Peak Volume	318	186	324	198	325	253	336	227	342	321	323	218
P.H.F	0.9578	0.9300	0.8901	0.7857	0.8376	0.8664	0.9333	0.8867	0.7991	0.8629	0.9038	0.9315

AECOM

7:00-8:00 AM	312	145	296	192	287	199	313	199	298	224	301	191.8
7:15-8:15 AM	318	141	324	172	312	169	336	182	326	199	323.2	172.6
7:30-8:30 AM	316	150	322	178	306	155	335	171	309	183	317.6	167.4
7:45-8:45 AM	297	159	315	174	325	157	310	181	342	185	317.8	171.2
8:00-9:00 AM	291	155	302	177	312	156	280	177	313	188	299.6	170.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002088
Route: CAMPUS DR WEST
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 1
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	41	3	53	7	56	1	68	7	60	3.8	55.6
00:15	2	42	5	54	3	67	8	59	5	54	4.6	55.2
00:30	5	32	1	53	7	56	1	49	4	56	3.6	49.2
00:45	6	43	6	41	4	62	3	83	5	68	4.8	59.4
01:00	3	65	1	52	3	105	5	86	3	71	3	75.8
01:15	2	45	5	52	1	99	4	85	3	71	3	70.4
01:30	3	48	1	74	4	76	2	71	2	86	2.4	71
01:45	0	55	4	44	0	60	1	137	1	94	1.2	78
02:00	3	48	1	67	3	97	2	131	3	104	2.4	89.4
02:15	2	71	4	90	7	80	8	100	4	130	5	94.2
02:30	0	78	4	112	6	99	5	148	7	118	4.4	111
02:45	1	64	1	93	1	103	2	113	2	109	1.4	96.4
03:00	2	67	3	92	3	101	1	140	5	91	2.8	98.2
03:15	1	76	0	114	2	120	2	126	0	128	1	112.8
03:30	1	117	1	160	3	148	0	183	0	172	1	156
03:45	0	91	0	134	1	141	1	144	1	143	0.6	130.6
04:00	2	111	0	165	2	130	0	168	2	149	1.2	144.6
04:15	2	88	2	126	3	134	0	130	2	98	1.8	115.2
04:30	3	89	2	123	3	130	4	181	2	106	2.8	125.8
04:45	1	83	2	120	1	146	0	190	3	112	1.4	130.2
05:00	2	85	3	116	2	135	0	184	0	116	1.4	127.2
05:15	3	112	7	113	2	130	2	173	0	102	2.8	126
05:30	2	98	4	114	3	110	5	166	4	86	3.6	114.8
05:45	5	93	1	106	6	95	5	150	5	94	4.4	107.6
06:00	2	61	8	87	0	70	3	119	4	86	3.4	84.6
06:15	4	54	5	92	2	76	9	87	6	93	5.2	80.4
06:30	10	81	12	73	24	63	9	60	11	63	13.2	68
06:45	10	38	12	63	13	53	11	54	13	56	11.8	52.8
07:00	14	50	12	51	19	56	19	67	18	54	16.4	55.6
07:15	22	58	27	72	24	46	19	57	22	41	22.8	54.8
07:30	32	58	31	47	39	56	23	64	33	67	31.6	58.4
07:45	21	36	23	45	21	55	35	47	28	52	25.6	47
08:00	27	36	25	33	22	30	13	34	25	47	22.4	36
08:15	28	33	22	31	13	30	21	27	31	28	23	29.8
08:30	22	20	24	31	30	32	30	34	29	30	27	29.4
08:45	19	29	38	24	27	17	27	27	20	18	26.2	23
09:00	13	25	32	14	25	20	34	27	15	12	23.8	19.6
09:15	19	16	27	14	26	13	34	16	32	15	27.6	14.8
09:30	28	21	38	12	35	10	31	14	46	19	35.6	15.2
09:45	24	13	35	10	33	17	35	17	33	20	32	15.4
10:00	32	11	46	10	47	13	40	16	34	13	39.8	12.6
10:15	19	14	43	15	41	15	57	18	29	12	37.8	14.8
10:30	32	11	40	18	53	6	56	12	38	11	43.8	11.6
10:45	39	6	36	4	37	10	37	11	55	8	40.8	7.8
11:00	41	8	49	5	56	8	37	11	44	14	45.4	9.2
11:15	30	7	47	7	64	9	54	10	54	6	49.8	7.8
11:30	39	10	47	11	47	13	57	13	42	8	46.4	11
11:45	34	4	61	10	39	8	42	8	53	3	45.8	6.6
Totals	613	2442	801	3047	814	3206	795	3915	785	3194	762	3161
Day Total	3055		3848		4020		4710		3979		3922	
AM Pct	20.1%		20.8%		20.2%		16.9%		19.7%		19.4%	
Peak Hour	11:30	15:30	11:45	15:30	11:45	15:30	11:30	16:30	11:45	15:15	11:45	15:30
Peak Volume	156	407	221	585	218	553	226	728	223	592	206	546
P.H.F	0.9286	0.8697	0.9057	0.8864	0.8134	0.9341	0.8309	0.9579	0.9292	0.8605	0.9254	0.8756

AECOM

4:00-5:00 PM	89	371	93	534	103	540	96	669	101	465	96	515.8
4:15-5:15 PM	102	345	106	485	106	545	90	685	108	432	102.4	498.4
4:30-5:30 PM	108	369	101	472	95	541	92	728	117	436	102.6	509.2
4:45-5:45 PM	98	378	94	463	86	521	99	713	113	416	98	498.2
5:00-6:00 PM	96	388	109	449	92	470	91	673	105	398	98.6	475.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002090
Route: STOCKFARM RD
Location: E. of SAND HILL RD

Site Ref: 2
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	21	0	49	1	18	0	24	0	34	0.2	29.2
00:15	2	34	0	28	0	3	0	32	0	25	0.4	24.4
00:30	2	21	0	44	0	12	1	28	0	14	0.6	23.8
00:45	1	26	2	51	1	4	0	43	2	16	1.2	28
01:00	1	34	0	24	1	32	0	46	0	2	0.4	27.6
01:15	0	24	0	41	0	36	0	39	0	0	0	28
01:30	0	17	0	28	1	26	1	34	0	0	0.4	21
01:45	0	26	0	35	0	27	1	40	1	3	0.4	26.2
02:00	0	15	1	32	0	26	3	23	1	3	1	19.8
02:15	1	21	0	36	0	60	0	28	0	3	0.2	29.6
02:30	0	28	0	43	1	37	0	53	2	0	0.6	32.2
02:45	0	25	0	45	1	47	0	43	1	3	0.4	32.6
03:00	1	21	1	24	2	25	1	32	1	8	1.2	22
03:15	3	19	0	71	3	38	1	34	1	4	1.6	33.2
03:30	1	17	1	90	0	40	0	26	2	7	0.8	36
03:45	2	27	0	100	3	46	2	32	1	7	1.6	42.4
04:00	2	8	4	66	1	46	0	32	2	31	1.8	36.6
04:15	3	23	1	38	0	48	1	34	0	23	1	33.2
04:30	7	17	6	42	9	42	10	32	4	24	7.2	31.4
04:45	9	11	7	35	7	41	10	24	10	36	8.6	29.4
05:00	13	24	10	38	10	20	10	25	8	15	10.2	24.4
05:15	25	27	20	34	19	28	18	38	16	22	19.6	29.8
05:30	21	17	25	36	25	30	26	36	25	26	24.4	29
05:45	49	23	50	18	64	23	41	26	43	21	49.4	22.2
06:00	47	15	58	15	62	29	61	44	75	22	60.6	25
06:15	80	19	97	24	79	22	90	29	74	31	84	25
06:30	75	21	84	16	94	22	92	20	78	26	84.6	21
06:45	76	11	82	12	93	14	84	24	80	9	83	14
07:00	70	7	82	13	66	5	78	11	61	10	71.4	9.2
07:15	72	9	66	10	65	11	64	3	75	8	68.4	8.2
07:30	67	6	92	9	88	7	65	2	55	6	73.4	6
07:45	74	5	88	5	68	7	77	6	79	9	77.2	6.4
08:00	59	7	75	11	83	10	75	5	73	7	73	8
08:15	53	5	61	11	68	6	68	7	87	8	67.4	7.4
08:30	62	5	61	5	64	5	62	9	57	5	61.2	5.8
08:45	60	5	77	5	60	9	56	5	61	5	62.8	5.8
09:00	54	4	62	6	77	2	44	3	55	1	58.4	3.2
09:15	39	4	63	4	59	4	48	5	62	3	54.2	4
09:30	32	2	46	7	45	4	31	5	52	8	41.2	5.2
09:45	39	2	55	3	40	4	45	5	41	2	44	3.2
10:00	32	4	55	7	35	4	25	6	45	8	38.4	5.8
10:15	24	3	44	4	36	0	36	5	28	6	33.6	3.6
10:30	29	1	43	6	42	4	37	4	47	1	39.6	3.2
10:45	30	1	28	4	50	1	29	1	33	4	34	2.2
11:00	28	1	30	1	31	1	22	1	40	2	30.2	1.2
11:15	26	2	35	0	38	1	18	1	38	2	31	1.2
11:30	26	0	38	3	29	3	30	2	36	0	31.8	1.6
11:45	24	2	44	5	15	1	13	1	57	4	30.6	2.6
Totals	1321	667	1594	1234	1536	931	1376	1008	1509	514	1467	871
Day Total	1988		2828		2467		2384		2023		2338	
AM Pct	66.4%		56.4%		62.3%		57.7%		74.6%		62.8%	
Peak Hour	6:15	12:15	6:15	15:15	6:15	15:45	6:15	12:45	6:00	16:00	6:15	15:15
Peak Volume	301	115	345	327	332	182	344	162	307	114	323	148
P.H.F	0.9406	0.8456	0.8892	0.8175	0.8830	0.9479	0.9348	0.8804	0.9594	0.7917	0.9545	0.8738

AECOM

7:00-8:00 AM	283	59	328	181	287	177	284	122	270	114	290	130.6
7:15-8:15 AM	272	75	321	153	304	151	281	115	282	98	292	118.4
7:30-8:30 AM	253	79	316	149	307	131	285	119	294	97	291	115
7:45-8:45 AM	248	79	285	143	283	119	282	123	296	99	278.8	112.6
8:00-9:00 AM	234	91	274	126	275	101	261	125	278	84	264.4	105.4

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002091
Route: STOCKFARM RD
Location: E. of SAND HILL RD

Site Ref: 2
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	5	29	8	23	7	23	10	34	4	29	6.8	27.6
00:15	3	28	7	24	3	1	5	41	3	23	4.2	23.4
00:30	2	20	6	35	5	1	3	40	3	27	3.8	24.6
00:45	5	22	3	20	2	5	3	37	2	3	3	17.4
01:00	4	35	2	23	2	6	2	57	4	0	2.8	24.2
01:15	3	30	4	38	3	36	5	40	6	0	4.2	28.8
01:30	3	42	0	33	3	27	1	32	1	0	1.6	26.8
01:45	0	32	4	23	3	35	2	7	1	1	2	19.6
02:00	0	36	5	40	1	61	2	15	1	2	1.8	30.8
02:15	3	34	2	41	4	78	2	11	1	4	2.4	33.6
02:30	2	34	5	58	4	90	6	8	4	0	4.2	38
02:45	0	33	0	46	0	65	2	19	1	4	0.6	33.4
03:00	0	48	0	46	2	83	2	13	0	7	0.8	39.4
03:15	2	58	0	68	5	88	4	13	2	3	2.6	46
03:30	0	65	0	75	0	112	1	7	1	6	0.4	53
03:45	0	69	0	77	1	99	2	13	0	1	0.6	51.8
04:00	0	70	2	76	1	91	0	8	1	3	0.8	49.6
04:15	0	53	0	63	0	118	0	7	0	47	0	57.6
04:30	1	62	2	74	2	96	3	4	3	59	2.2	59
04:45	2	73	1	78	1	130	1	19	0	65	1	73
05:00	2	86	3	75	1	97	2	13	4	60	2.4	66.2
05:15	0	76	1	92	2	89	1	38	4	61	1.6	71.2
05:30	2	83	3	96	1	83	1	20	4	57	2.2	67.8
05:45	5	69	6	74	5	94	3	33	6	66	5	67.2
06:00	7	54	4	72	11	85	5	65	6	54	6.6	66
06:15	10	69	10	52	6	54	9	64	2	53	7.4	58.4
06:30	8	47	11	55	6	65	7	56	9	68	8.2	58.2
06:45	7	52	9	71	8	54	5	62	10	51	7.8	58
07:00	23	42	24	60	17	50	12	51	13	40	17.8	48.6
07:15	15	43	10	56	7	56	11	36	11	51	10.8	48.4
07:30	19	46	16	37	17	49	12	37	17	40	16.2	41.8
07:45	22	22	18	35	12	23	12	28	15	35	15.8	28.6
08:00	11	19	17	30	17	22	22	39	16	16	16.6	25.2
08:15	19	20	31	28	15	26	18	32	18	23	20.2	25.8
08:30	22	12	24	11	25	12	28	13	17	12	23.2	12
08:45	35	13	28	10	17	6	21	10	19	11	24	10
09:00	28	15	37	18	23	16	14	12	15	9	23.4	14
09:15	14	12	25	8	13	14	14	13	16	14	16.4	12.2
09:30	21	10	13	12	25	10	16	15	15	15	18	12.4
09:45	18	14	12	17	21	11	22	8	18	13	18.2	12.6
10:00	9	8	20	7	33	7	39	11	20	10	24.2	8.6
10:15	16	7	32	9	23	12	21	5	13	10	21	8.6
10:30	11	6	32	7	17	8	22	3	17	3	19.8	5.4
10:45	33	5	19	11	28	9	24	6	18	0	24.4	6.2
11:00	24	3	25	4	26	6	29	10	27	9	26.2	6.4
11:15	17	11	22	4	29	6	28	5	23	10	23.8	7.2
11:30	29	6	19	9	30	7	25	7	26	6	25.8	7
11:45	23	6	25	3	30	4	32	5	27	8	27.4	5.2
Totals	485	1729	547	1924	514	2220	511	1122	444	1089	500	1617
Day Total	2214	2471	2734	1633	1533	2117						
AM Pct	21.9%	22.1%	18.8%	31.3%	29.0%	23.6%						
Peak Hour	11:30	16:45	8:15	16:45	11:00	16:15	11:45	18:00	11:45	16:30	11:15	16:45
Peak Volume	109	318	120	341	115	441	147	247	106	245	105	278
P.H.F	0.9397	0.9244	0.8108	0.8880	0.9583	0.8481	0.8963	0.9500	0.9138	0.9423	0.9475	0.9527

AECOM

4:00-5:00 PM	79	258	68	291	53	435	47	38	56	174	61	239.2
4:15-5:15 PM	67	274	61	290	53	441	57	43	59	231	59.4	255.8
4:30-5:30 PM	71	297	82	319	61	412	64	74	66	245	68.8	269.4
4:45-5:45 PM	74	318	90	341	69	399	80	90	66	243	75.8	278.2
5:00-6:00 PM	87	314	100	337	74	363	89	104	70	244	84	272.4

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002092
Route: WELCH RD
Location: N. of OAK RD

Site Ref: 3
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	23	4	28	4	32	3	33	4	27	3.2	28.6
00:15	1	28	4	30	2	44	5	29	0	49	2.4	36
00:30	1	20	3	32	2	29	0	40	1	47	1.4	33.6
00:45	3	26	0	24	2	39	2	43	1	31	1.6	32.6
01:00	0	25	0	35	2	67	3	44	1	33	1.2	40.8
01:15	2	18	0	29	1	60	2	40	1	46	1.2	38.6
01:30	1	18	0	42	4	36	1	37	1	38	1.4	34.2
01:45	1	23	0	20	0	29	2	57	3	36	1.2	33
02:00	0	29	0	37	3	58	2	51	1	30	1.2	41
02:15	1	26	0	35	4	79	0	49	2	46	1.4	47
02:30	0	30	0	55	1	82	2	45	1	58	0.8	54
02:45	1	27	0	29	1	63	1	39	1	38	0.8	39.2
03:00	1	17	0	38	0	79	1	39	0	35	0.4	41.6
03:15	0	29	0	44	1	88	1	42	0	37	0.4	48
03:30	2	31	0	54	5	114	1	56	1	53	1.8	61.6
03:45	3	29	0	68	1	75	3	41	0	49	1.4	52.4
04:00	3	40	0	72	3	100	3	54	2	49	2.2	63
04:15	5	21	0	43	6	102	3	52	7	40	4.2	51.6
04:30	8	39	0	56	5	93	9	59	10	40	6.4	57.4
04:45	7	33	0	40	7	99	8	60	5	51	5.4	56.6
05:00	4	33	0	40	4	50	8	52	6	31	4.4	41.2
05:15	17	36	0	46	18	40	11	51	16	34	12.4	41.4
05:30	17	28	0	32	18	38	13	50	20	21	13.6	33.8
05:45	23	30	0	39	29	37	27	50	14	38	18.6	38.8
06:00	26	19	0	36	21	22	18	43	23	26	17.6	29.2
06:15	26	18	0	19	25	20	28	22	28	28	21.4	21.4
06:30	14	17	0	19	26	21	23	10	25	25	17.6	18.4
06:45	21	7	0	21	28	13	17	20	25	10	18.2	14.2
07:00	21	17	0	18	27	16	30	16	17	23	19	18
07:15	25	20	0	18	36	22	24	18	28	9	22.6	17.4
07:30	31	10	0	15	36	31	33	18	43	20	28.6	18.8
07:45	44	10	0	7	35	16	37	10	37	10	30.6	10.6
08:00	28	9	0	14	24	10	23	7	37	12	22.4	10.4
08:15	19	7	0	12	35	6	24	8	25	11	20.6	8.8
08:30	32	12	30	10	41	11	39	8	29	7	34.2	9.6
08:45	23	3	27	7	25	6	29	9	26	9	26	6.8
09:00	23	7	32	9	28	10	27	7	32	11	28.4	8.8
09:15	12	2	26	5	27	6	16	5	18	3	19.8	4.2
09:30	29	7	27	8	34	9	25	8	30	8	29	8
09:45	27	10	33	3	32	6	30	6	33	11	31	7.2
10:00	25	6	32	9	30	8	29	10	27	10	28.6	8.6
10:15	27	1	31	4	25	3	37	4	21	2	28.2	2.8
10:30	27	4	33	4	44	6	41	4	30	1	35	3.8
10:45	21	2	28	2	22	2	22	7	32	5	25	3.6
11:00	24	4	28	5	21	8	28	5	19	5	24	5.4
11:15	14	3	23	5	28	6	25	7	23	7	22.6	5.6
11:30	17	7	32	9	31	6	24	6	18	6	24.4	6.8
11:45	17	2	14	8	26	1	34	6	15	3	21.2	4
Totals	675	863	407	1235	830	1798	774	1377	739	1219	685	1298
Day Total	1538		1642		2628		2151		1958		1983	
AM Pct	43.9%		24.8%		31.6%		36.0%		37.7%		34.5%	
Peak Hour	7:15	16:30	9:45	15:45	7:45	16:00	9:45	16:00	7:15	15:30	9:45	15:30
Peak Volume	128	141	129	239	135	394	137	225	145	191	123	229
P.H.F	0.7273	0.9038	0.9773	0.8299	0.8232	0.9657	0.8354	0.9375	0.8430	0.9009	0.8771	0.9071
AECOM												
7:00-8:00 AM	121	133	0	211	134	394	124	225	125	180	101	228.6
7:15-8:15 AM	128	126	0	179	131	344	117	223	145	162	104.2	206.8
7:30-8:30 AM	122	141	0	182	130	282	117	222	142	156	102.2	196.6
7:45-8:45 AM	123	130	30	158	135	227	123	213	128	137	107.8	173
8:00-9:00 AM	102	127	57	157	125	165	115	203	117	124	103.2	155.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002093
Route: WELCH RD
Location: N. of OAK RD

Site Ref: 3
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	26	2	36	6	34	6	36	6	33	4.4	33
00:15	0	37	3	32	3	47	3	42	3	48	2.4	41.2
00:30	2	32	4	33	0	44	1	37	2	29	1.8	35
00:45	1	29	0	42	3	56	1	54	3	47	1.6	45.6
01:00	1	31	0	34	1	66	1	45	3	37	1.2	42.6
01:15	0	31	0	47	1	49	3	48	1	34	1	41.8
01:30	1	24	0	34	3	34	1	36	1	35	1.2	32.6
01:45	0	37	0	32	2	46	2	56	5	49	1.8	44
02:00	2	33	0	42	1	48	2	53	2	55	1.4	46.2
02:15	4	32	0	41	8	57	8	65	3	65	4.6	52
02:30	0	31	0	47	17	58	21	78	20	59	11.6	54.6
02:45	1	24	0	45	4	51	2	62	1	54	1.6	47.2
03:00	0	20	0	30	0	26	1	52	0	54	0.2	36.4
03:15	1	36	0	32	3	38	1	43	1	54	1.2	40.6
03:30	1	33	0	83	3	47	2	61	0	56	1.2	56
03:45	3	29	0	74	1	43	1	70	5	60	2	55.2
04:00	1	21	0	55	3	42	1	44	0	51	1	42.6
04:15	2	23	0	36	2	47	3	55	1	54	1.6	43
04:30	4	25	0	34	3	47	1	48	7	39	3	38.6
04:45	4	29	0	37	4	40	4	54	6	28	3.6	37.6
05:00	4	26	0	37	6	34	4	46	3	36	3.4	35.8
05:15	10	33	0	40	7	32	7	48	9	24	6.6	35.4
05:30	9	39	0	52	7	31	8	73	15	33	7.8	45.6
05:45	16	37	0	39	21	32	15	43	10	38	12.4	37.8
06:00	17	22	0	36	18	29	15	43	19	39	13.8	33.8
06:15	19	40	0	36	16	40	19	47	25	39	15.8	40.4
06:30	17	52	0	27	36	36	22	45	28	39	20.6	39.8
06:45	18	26	0	34	29	25	17	30	33	23	19.4	27.6
07:00	19	10	0	24	24	19	26	23	20	24	17.8	20
07:15	30	27	0	28	20	28	26	27	24	23	20	26.6
07:30	25	16	0	27	29	13	30	21	18	19	20.4	19.2
07:45	37	21	0	24	37	13	47	16	45	21	33.2	19
08:00	21	13	0	22	29	23	37	15	38	7	25	16
08:15	24	14	0	11	36	18	39	16	48	18	29.4	15.4
08:30	34	13	32	7	35	12	41	12	56	6	39.6	10
08:45	31	5	43	12	38	7	25	7	36	8	34.6	7.8
09:00	26	9	44	5	27	7	23	9	31	9	30.2	7.8
09:15	25	9	27	14	34	9	21	13	33	8	28	10.6
09:30	23	5	27	11	31	12	26	11	29	13	27.2	10.4
09:45	33	4	42	7	25	13	44	10	42	7	37.2	8.2
10:00	17	7	24	6	30	6	29	14	27	11	25.4	8.8
10:15	19	7	39	13	23	7	43	10	24	17	29.6	10.8
10:30	20	5	28	7	30	7	28	9	26	7	26.4	7
10:45	27	4	20	4	27	3	33	4	28	5	27	4
11:00	18	5	25	6	25	4	20	5	33	9	24.2	5.8
11:15	16	3	31	5	29	5	29	5	34	2	27.8	4
11:30	22	5	13	7	24	4	25	7	22	7	21.2	6
11:45	19	5	36	3	41	1	27	3	43	3	33.2	3
Totals	626	1045	440	1390	802	1390	791	1651	869	1436	706	1382
Day Total	1671	1830	2192	2442	2305	2088						
AM Pct	37.5%	24.0%	36.6%	32.4%	37.7%	33.8%						
Peak Hour	7:45	17:45	8:30	15:30	11:45	12:30	7:45	14:00	7:45	14:00	11:45	14:00
Peak Volume	116	151	146	248	166	215	164	258	187	233	142	200
P.H.F	0.7838	0.7260	0.8295	0.7470	0.8830	0.8144	0.8723	0.8269	0.8348	0.8962	0.8641	0.9158

AECOM

4:00-5:00 PM	111	98	0	162	110	176	129	201	107	172	91	161.8
4:15-5:15 PM	113	103	0	144	115	168	140	203	125	157	98.6	155
4:30-5:30 PM	107	113	0	148	131	153	153	196	149	127	108	147.4
4:45-5:45 PM	116	127	32	166	137	137	164	221	187	121	127.2	154.4
5:00-6:00 PM	110	135	75	168	138	129	142	210	178	131	128.6	154.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002094
Route: QUARRY RD
Location: Btwn CAMPUS DR & QUARRY RD EXTENSION

Site Ref: 4
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	3	19	2	24	1	30	3	37	0	22	1.8	26.4
00:15	1	20	4	18	0	31	0	55	0	18	1	28.4
00:30	0	30	1	18	1	26	4	45	2	28	1.6	29.4
00:45	0	26	1	16	1	49	1	41	1	24	0.8	31.2
01:00	0	40	0	21	1	61	2	69	2	20	1	42.2
01:15	0	22	0	17	0	39	0	46	1	21	0.2	29
01:30	1	23	0	24	1	18	1	48	0	30	0.6	28.6
01:45	0	15	0	21	0	35	1	47	0	27	0.2	29
02:00	0	29	0	34	0	36	1	68	1	35	0.4	40.4
02:15	0	34	0	23	1	30	0	31	1	44	0.4	32.4
02:30	1	27	1	22	0	32	0	31	1	32	0.6	28.8
02:45	0	23	0	32	2	36	2	34	0	32	0.8	31.4
03:00	0	24	0	37	1	47	1	32	1	28	0.6	33.6
03:15	1	34	3	31	1	52	1	34	1	31	1.4	36.4
03:30	2	39	4	46	2	56	3	22	2	35	2.6	39.6
03:45	3	29	1	42	1	26	0	39	1	46	1.2	36.4
04:00	1	28	5	29	3	41	3	35	2	31	2.8	32.8
04:15	0	28	1	37	2	37	2	32	1	33	1.2	33.4
04:30	2	25	2	21	1	45	4	39	9	26	3.6	31.2
04:45	4	12	5	24	7	33	6	45	4	29	5.2	28.6
05:00	2	24	3	12	1	25	4	26	5	29	3	23.2
05:15	5	15	4	16	7	15	7	33	5	22	5.6	20.2
05:30	8	18	14	15	7	19	12	28	8	8	9.8	17.6
05:45	10	11	14	16	10	15	7	31	12	17	10.6	18
06:00	12	13	9	9	11	18	12	19	13	18	11.4	15.4
06:15	10	20	18	28	24	17	15	19	6	19	14.6	20.6
06:30	11	15	24	10	15	8	23	20	18	18	18.2	14.2
06:45	17	8	15	14	14	8	10	11	25	7	16.2	9.6
07:00	10	15	10	9	11	11	14	11	12	11	11.4	11.4
07:15	24	18	16	8	16	9	19	14	17	12	18.4	12.2
07:30	14	12	12	13	21	14	21	13	13	16	16.2	13.6
07:45	18	9	11	6	22	4	15	9	14	6	16	6.8
08:00	15	2	17	8	19	7	14	8	18	6	16.6	6.2
08:15	24	5	18	6	18	8	31	2	16	3	21.4	4.8
08:30	26	5	26	3	30	3	26	8	17	3	25	4.4
08:45	18	5	28	8	37	1	26	5	15	2	24.8	4.2
09:00	22	3	41	6	23	2	34	8	16	5	27.2	4.8
09:15	32	3	22	2	20	5	18	4	20	3	22.4	3.4
09:30	16	1	16	4	31	3	24	7	21	8	21.6	4.6
09:45	32	7	18	9	24	7	27	6	19	3	24	6.4
10:00	15	4	31	4	19	8	46	1	23	6	26.8	4.6
10:15	19	5	35	3	23	4	33	2	17	11	25.4	5
10:30	11	1	33	5	20	6	31	4	20	6	23	4.4
10:45	19	4	22	3	39	8	32	4	23	3	27	4.4
11:00	15	4	24	3	33	1	32	5	23	3	25.4	3.2
11:15	17	1	26	2	30	4	37	5	27	3	27.4	3
11:30	20	5	22	2	26	2	38	6	16	8	24.4	4.6
11:45	19	0	27	3	33	0	31	2	32	1	28.4	1.2
Totals	480	760	586	764	610	992	674	1141	501	849	570	901
Day Total	1240		1350		1602		1815		1350		1471	
AM Pct	38.7%		43.4%		38.1%		37.1%		37.1%		38.8%	
Peak Hour	9:00	15:15	10:00	15:00	10:45	14:45	11:45	12:15	11:45	15:30	11:45	15:00
Peak Volume	102	130	121	156	128	191	168	210	100	145	113	146
P.H.F	0.7969	0.8333	0.8643	0.8478	0.8205	0.8527	0.7636	0.7609	0.7813	0.7880	0.9575	0.9217

AECOM

7:00-8:00 AM	66	93	49	111	70	156	69	151	56	119	62	126
7:15-8:15 AM	71	89	56	94	78	140	69	142	62	117	67.2	116.4
7:30-8:30 AM	71	76	58	73	80	118	81	143	61	106	70.2	103.2
7:45-8:45 AM	83	69	72	67	89	92	86	132	65	88	79	89.6
8:00-9:00 AM	83	68	89	59	104	74	97	118	66	76	87.8	79

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002095
Route: QUARRY RD EXT
Location: W. of QUARRY RD

Site Ref: 4
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	13	2	11	2	15	1	13	1	20	1.2	14.4
00:15	1	11	0	11	1	18	6	20	1	20	1.8	16
00:30	0	16	1	21	1	18	4	20	1	9	1.4	16.8
00:45	1	13	1	13	6	17	2	25	6	12	3.2	16
01:00	0	1	1	16	2	18	1	7	0	6	0.8	9.6
01:15	0	9	2	15	1	12	0	13	1	12	0.8	12.2
01:30	0	21	2	21	6	15	2	16	1	18	2.2	18.2
01:45	0	12	2	7	2	13	1	26	2	13	1.4	14.2
02:00	3	14	0	16	0	8	0	17	0	21	0.6	15.2
02:15	2	15	0	22	3	13	1	13	1	14	1.4	15.4
02:30	1	24	0	16	0	25	1	12	1	18	0.6	19
02:45	1	16	0	13	1	10	5	19	1	16	1.6	14.8
03:00	2	20	5	16	2	17	2	20	1	15	2.4	17.6
03:15	2	17	7	10	3	22	8	12	5	16	5	15.4
03:30	7	14	6	18	5	10	10	8	6	10	6.8	12
03:45	7	12	4	13	8	15	5	12	13	10	7.4	12.4
04:00	0	10	4	10	4	17	6	11	6	9	4	11.4
04:15	2	17	6	7	6	9	7	17	6	11	5.4	12.2
04:30	4	15	11	17	3	4	3	8	4	14	5	11.6
04:45	5	2	5	5	9	11	5	6	5	12	5.8	7.2
05:00	5	9	6	15	4	13	7	7	10	8	6.4	10.4
05:15	5	13	9	11	7	8	9	10	3	10	6.6	10.4
05:30	11	8	13	6	14	5	11	14	9	7	11.6	8
05:45	22	10	29	8	19	7	23	8	12	9	21	8.4
06:00	19	6	17	6	21	10	20	8	17	9	18.8	7.8
06:15	24	9	33	10	34	11	33	12	39	10	32.6	10.4
06:30	33	6	19	9	19	12	23	6	23	7	23.4	8
06:45	16	1	22	8	22	6	13	5	21	7	18.8	5.4
07:00	17	13	14	4	12	2	19	7	20	5	16.4	6.2
07:15	14	10	17	11	29	7	17	8	28	4	21	8
07:30	25	10	23	6	19	6	15	10	21	9	20.6	8.2
07:45	22	2	15	7	20	6	19	3	21	5	19.4	4.6
08:00	17	5	25	6	19	3	14	5	11	8	17.2	5.4
08:15	17	8	17	8	14	13	16	5	22	5	17.2	7.8
08:30	17	10	15	2	15	2	15	5	8	2	14	4.2
08:45	12	7	24	8	17	6	13	4	8	4	14.8	5.8
09:00	9	12	11	11	14	2	11	7	8	6	10.6	7.6
09:15	17	3	8	5	13	5	13	9	16	4	13.4	5.2
09:30	9	4	18	4	10	5	24	4	18	6	15.8	4.6
09:45	17	1	18	5	11	5	11	4	12	3	13.8	3.6
10:00	8	7	16	3	12	3	14	4	18	4	13.6	4.2
10:15	17	4	18	4	15	5	18	3	15	4	16.6	4
10:30	11	6	12	2	8	3	11	4	10	4	10.4	3.8
10:45	10	6	19	5	20	2	11	3	7	5	13.4	4.2
11:00	12	9	14	3	22	5	23	6	15	2	17.2	5
11:15	20	1	24	3	14	5	16	4	20	4	18.8	3.4
11:30	10	2	16	2	22	4	15	4	17	1	16	2.6
11:45	13	3	14	2	20	2	12	2	6	2	13	2.2
Totals	467	457	545	452	531	450	516	466	497	430	511	451
Day Total	924		997		981		982		927		962	
AM Pct	50.5%		54.7%		54.1%		52.5%		53.6%		53.1%	
Peak Hour	5:45	14:30	5:45	14:00	6:00	14:30	5:45	12:00	6:15	14:00	5:45	14:15
Peak Volume	98	77	98	67	96	74	99	78	103	69	96	67
P.H.F	0.7424	0.8021	0.7424	0.7614	0.7059	0.7400	0.7500	0.7800	0.6603	0.8214	0.7347	0.8789
AECOM												
4:00-5:00 PM	78	44	69	39	80	41	70	42	90	46	77	42.4
4:15-5:15 PM	78	43	80	44	87	37	65	38	81	45	78.2	41.4
4:30-5:30 PM	81	39	80	48	72	36	64	31	75	44	74.4	39.6
4:45-5:45 PM	73	32	72	37	68	37	64	37	62	37	67.8	36
5:00-6:00 PM	63	40	81	40	65	33	58	39	49	34	63.2	37.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002096
Route: QUARRY RD
Location: N. of QUARRY RD EXTENSION

Site Ref: 4
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	6	21	5	26	6	33	8	18	5	26	6	24.8
00:15	0	25	1	18	5	36	5	17	1	27	2.4	24.6
00:30	2	29	1	18	4	27	9	22	5	29	4.2	25
00:45	0	31	3	28	3	22	5	33	6	34	3.4	29.6
01:00	4	17	0	23	8	35	4	37	4	23	4	27
01:15	2	17	0	20	2	32	2	27	1	31	1.4	25.4
01:30	1	26	0	45	0	29	3	27	5	30	1.8	31.4
01:45	0	20	0	26	3	32	1	34	2	28	1.2	28
02:00	2	25	0	34	3	24	0	35	1	33	1.2	30.2
02:15	2	23	0	20	1	25	1	24	3	30	1.4	24.4
02:30	2	36	0	32	0	44	1	26	1	38	0.8	35.2
02:45	3	21	0	24	1	33	1	23	5	33	2	26.8
03:00	1	29	0	29	2	31	2	51	0	38	1	35.6
03:15	1	36	0	37	2	40	4	28	1	27	1.6	33.6
03:30	3	37	0	41	1	28	5	34	2	49	2.2	37.8
03:45	6	34	0	41	4	34	2	25	8	36	4	34
04:00	2	25	0	35	7	32	8	24	3	41	4	31.4
04:15	2	35	0	31	2	43	4	31	1	37	1.8	35.4
04:30	1	34	0	23	3	36	3	34	5	28	2.4	31
04:45	6	23	0	23	4	34	5	23	3	38	3.6	28.2
05:00	5	30	0	29	2	37	3	25	4	33	2.8	30.8
05:15	4	29	0	29	5	31	5	27	5	32	3.8	29.6
05:30	8	28	0	41	16	25	9	33	11	24	8.8	30.2
05:45	17	23	0	28	10	28	12	29	9	29	9.6	27.4
06:00	13	33	0	26	14	22	14	28	11	29	10.4	27.6
06:15	13	23	0	17	15	17	17	23	11	32	11.2	22.4
06:30	19	20	0	26	24	17	26	28	17	21	17.2	22.4
06:45	14	12	0	14	16	8	28	12	27	12	17	11.6
07:00	16	15	0	16	17	13	23	18	24	15	16	15.4
07:15	21	21	0	22	23	20	26	17	19	17	17.8	19.4
07:30	33	16	0	15	34	18	25	22	35	20	25.4	18.2
07:45	26	14	0	17	18	16	21	16	25	13	18	15.2
08:00	23	15	0	10	27	12	30	14	18	11	19.6	12.4
08:15	25	14	0	6	21	9	16	14	19	11	16.2	10.8
08:30	15	6	0	10	24	9	18	9	13	13	14	9.4
08:45	27	8	0	11	24	0	19	7	22	6	18.4	6.4
09:00	17	7	0	5	14	7	23	5	20	11	14.8	7
09:15	14	11	0	14	21	6	17	7	27	9	15.8	9.4
09:30	16	9	0	5	22	5	26	9	15	6	15.8	6.8
09:45	16	3	0	5	22	9	23	4	23	4	16.8	5
10:00	12	7	0	9	18	6	14	7	25	7	13.8	7.2
10:15	22	3	0	5	26	6	23	4	20	7	18.2	5
10:30	15	6	0	7	20	2	22	7	24	9	16.2	6.2
10:45	24	10	0	3	25	6	26	4	31	8	21.2	6.2
11:00	13	10	0	7	21	10	23	9	35	4	18.4	8
11:15	22	7	0	10	28	9	33	13	38	7	24.2	9.2
11:30	19	7	14	4	21	9	14	7	28	3	19.2	6
11:45	28	6	25	4	30	4	22	5	21	3	25.2	4.4
Totals	543	937	49	969	619	1011	631	976	639	1052	496	989
Day Total	1480		1018		1630		1607		1691		1485	
AM Pct	36.7%		4.8%		38.0%		39.3%		37.8%		33.4%	
Peak Hour	7:30	15:00	11:45	15:15	11:45	16:15	10:30	15:00	10:45	15:30	11:45	15:00
Peak Volume	107	136	87	154	126	150	104	138	132	163	100	141
P.H.F	0.8106	0.9189	0.8365	0.9390	0.8750	0.8721	0.7879	0.6765	0.8684	0.8316	0.9881	0.9325

AECOM

7:00-8:00 AM	96	117	0	112	92	145	95	112	103	144	77	126
7:15-8:15 AM	103	122	0	106	102	150	102	113	97	136	80.8	125.4
7:30-8:30 AM	107	116	0	104	100	138	92	109	97	131	79.2	119.6
7:45-8:45 AM	89	110	0	122	90	127	85	108	75	127	67.8	118.8
8:00-9:00 AM	90	110	0	127	96	121	83	114	72	118	68.2	118

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002097
Route: PALM DR
Location: S. of ARBORETUM RD

Site Ref: 5
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	38	0	33	3	46	0	42	0	46	0.8	41
00:15	0	31	1	27	0	40	6	56	1	45	1.6	39.8
00:30	0	48	2	42	2	39	1	44	0	38	1	42.2
00:45	2	35	0	33	1	60	2	44	2	37	1.4	41.8
01:00	1	45	1	37	0	35	1	39	0	45	0.6	40.2
01:15	0	39	0	22	0	38	0	57	1	39	0.2	39
01:30	0	30	0	37	2	34	2	39	5	25	1.8	33
01:45	0	37	3	38	2	46	1	44	0	46	1.2	42.2
02:00	3	36	2	36	2	37	3	35	0	45	2	37.8
02:15	1	42	1	47	2	34	4	38	4	42	2.4	40.6
02:30	2	45	1	31	5	45	0	38	1	51	1.8	42
02:45	0	24	1	33	3	33	1	33	1	31	1.2	30.8
03:00	2	37	1	30	0	38	2	37	1	48	1.2	38
03:15	0	39	1	38	3	39	1	44	0	36	1	39.2
03:30	3	67	0	49	3	40	2	35	3	43	2.2	46.8
03:45	7	41	8	50	6	65	7	43	5	39	6.6	47.6
04:00	4	44	3	35	4	43	6	45	5	69	4.4	47.2
04:15	7	45	6	44	4	36	12	48	11	46	8	43.8
04:30	12	30	14	37	12	30	15	48	9	47	12.4	38.4
04:45	19	42	19	46	18	55	19	47	13	44	17.6	46.8
05:00	20	41	23	35	22	50	22	37	23	47	22	42
05:15	26	35	26	49	41	42	28	49	27	50	29.6	45
05:30	37	39	44	43	40	36	39	38	39	61	39.8	43.4
05:45	48	40	44	56	36	52	47	43	39	47	42.8	47.6
06:00	50	38	47	47	54	39	41	40	42	56	46.8	44
06:15	48	37	60	34	45	28	56	42	52	40	52.2	36.2
06:30	53	32	61	27	61	24	64	36	62	31	60.2	30
06:45	58	18	53	34	64	20	44	29	46	27	53	25.6
07:00	40	30	45	27	36	25	50	17	36	26	41.4	25
07:15	45	12	42	22	41	32	34	23	38	27	40	23.2
07:30	50	15	46	21	48	23	47	24	45	27	47.2	22
07:45	53	21	59	12	54	16	56	17	45	23	53.4	17.8
08:00	48	19	56	24	45	18	56	14	45	26	50	20.2
08:15	37	14	46	18	48	22	43	32	41	17	43	20.6
08:30	58	14	44	14	47	16	41	12	52	18	48.4	14.8
08:45	46	15	50	13	57	12	43	15	48	18	48.8	14.6
09:00	46	12	54	19	50	12	50	18	57	33	51.4	18.8
09:15	50	12	67	13	57	15	48	21	52	23	54.8	16.8
09:30	47	15	53	15	44	16	51	16	42	13	47.4	15
09:45	40	7	48	23	38	11	40	15	39	16	41	14.4
10:00	38	18	36	19	32	22	34	17	48	20	37.6	19.2
10:15	30	22	35	14	31	10	42	20	29	21	33.4	17.4
10:30	31	10	44	6	39	12	35	8	29	14	35.6	10
10:45	33	7	26	10	39	6	47	2	50	10	39	7
11:00	27	0	27	6	30	1	36	2	30	7	30	3.2
11:15	40	7	37	2	54	4	39	5	42	11	42.4	5.8
11:30	30	4	44	5	41	4	40	4	44	8	39.8	5
11:45	31	0	32	2	44	2	48	3	43	4	39.6	2.2
Totals	1224	1304	1313	1355	1310	1403	1306	1455	1247	1583	1280	1425
Day Total	2528		2668		2713		2761		2830		2705	
AM Pct	48.4%		49.2%		48.3%		47.3%		44.1%		47.4%	
Peak Hour	6:00	15:30	8:45	17:15	6:00	15:15	6:15	16:00	8:30	17:15	6:00	15:30
Peak Volume	209	172	224	195	224	187	214	188	209	214	212	180
P.H.F	0.9009	0.9556	0.8358	0.8705	0.8750	0.7192	0.8359	0.9792	0.9167	0.8770	0.8812	0.9475

AECOM

4:00-5:00 PM	188	161	192	162	179	164	187	188	164	206	182	176.2
4:15-5:15 PM	196	158	203	162	188	171	193	180	173	184	190.6	171
4:30-5:30 PM	188	148	207	167	195	177	202	181	176	188	193.6	172.2
4:45-5:45 PM	196	157	205	173	194	183	196	171	183	202	194.8	177.2
5:00-6:00 PM	189	155	196	183	197	180	183	167	186	205	190.2	178

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002098
Route: PALM DR
Location: S. of ARBORETUM RD

Site Ref: 5
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	9	25	4	26	2	20	4	28	8	28	5.4	25.4
00:15	2	22	1	23	3	28	2	23	3	23	2.2	23.8
00:30	2	29	4	32	2	27	7	22	2	26	3.4	27.2
00:45	4	22	1	28	2	33	3	27	1	33	2.2	28.6
01:00	1	30	15	26	11	31	13	35	14	24	10.8	29.2
01:15	4	28	1	29	4	28	3	32	5	31	3.4	29.6
01:30	1	14	0	24	2	35	2	49	0	43	1	33
01:45	1	30	2	28	3	44	1	40	1	25	1.6	33.4
02:00	3	41	3	42	2	44	1	49	4	52	2.6	45.6
02:15	0	37	1	34	1	49	5	34	1	49	1.6	40.6
02:30	2	42	5	56	7	56	4	58	8	55	5.2	53.4
02:45	1	33	0	25	0	34	1	42	1	50	0.6	36.8
03:00	0	40	0	46	2	45	0	47	0	53	0.4	46.2
03:15	1	47	1	46	0	50	0	47	1	40	0.6	46
03:30	0	50	1	70	2	66	1	68	2	60	1.2	62.8
03:45	0	36	1	45	0	49	1	42	1	45	0.6	43.4
04:00	0	35	3	51	0	47	0	49	0	50	0.6	46.4
04:15	0	23	0	39	2	50	0	38	1	51	0.6	40.2
04:30	6	33	3	41	6	55	9	52	7	46	6.2	45.4
04:45	2	33	3	45	1	47	3	48	2	40	2.2	42.6
05:00	1	40	1	45	1	50	1	50	4	51	1.6	47.2
05:15	2	42	0	46	1	54	3	33	1	51	1.4	45.2
05:30	11	41	11	46	9	41	9	53	7	41	9.4	44.4
05:45	2	35	1	30	6	48	3	49	2	39	2.8	40.2
06:00	1	31	0	40	2	38	2	38	2	32	1.4	35.8
06:15	5	46	11	45	10	35	5	45	8	47	7.8	43.6
06:30	10	39	10	35	14	44	16	41	9	40	11.8	39.8
06:45	12	45	19	33	15	26	11	36	17	36	14.8	35.2
07:00	22	30	19	32	29	30	33	28	28	42	26.2	32.4
07:15	16	31	20	30	15	21	17	23	11	40	15.8	29
07:30	19	29	26	44	21	29	20	28	24	38	22	33.6
07:45	10	22	15	36	13	17	13	28	17	28	13.6	26.2
08:00	15	25	16	21	20	18	15	22	15	22	16.2	21.6
08:15	14	18	13	14	9	18	15	15	13	12	12.8	15.4
08:30	10	13	13	18	12	15	12	24	22	12	13.8	16.4
08:45	14	14	15	15	17	16	5	11	16	14	13.4	14
09:00	14	11	19	8	18	8	14	14	15	10	16	10.2
09:15	20	10	17	8	19	14	19	15	16	16	18.2	12.6
09:30	9	8	12	10	10	11	7	7	8	17	9.2	10.6
09:45	27	8	23	5	20	11	16	6	25	4	22.2	6.8
10:00	12	8	21	10	13	15	18	8	16	10	16	10.2
10:15	9	6	19	4	22	10	18	11	18	9	17.2	8
10:30	24	8	13	9	22	10	21	9	24	13	20.8	9.8
10:45	13	4	20	9	22	10	31	10	17	10	20.6	8.6
11:00	19	10	23	7	27	11	22	11	28	10	23.8	9.8
11:15	15	11	15	10	35	10	25	8	25	12	23	10.2
11:30	19	19	23	11	33	18	22	13	27	22	24.8	16.6
11:45	20	3	25	6	19	7	25	4	36	3	25	4.6
Totals	404	1257	469	1383	506	1473	478	1470	513	1505	474	1418
Day Total	1661		1852		1979		1948		2018		1892	
AM Pct	24.3%		25.3%		25.6%		24.5%		25.4%		25.1%	
Peak Hour	11:45	15:00	11:45	15:15	10:45	15:15	10:45	15:15	11:00	14:15	11:45	15:15
Peak Volume	96	173	106	212	117	212	100	206	116	207	101	199
P.H.F	0.8276	0.8650	0.8281	0.7571	0.8357	0.8030	0.8065	0.7574	0.8056	0.9409	0.9320	0.7906

AECOM

4:00-5:00 PM	67	124	80	176	78	199	83	187	80	187	78	174.6
4:15-5:15 PM	60	129	77	170	69	202	65	188	67	188	67.6	175.4
4:30-5:30 PM	58	148	70	177	63	206	63	183	69	188	64.6	180.4
4:45-5:45 PM	49	156	57	182	54	192	55	184	67	183	56.4	179.4
5:00-6:00 PM	53	158	57	167	58	193	47	185	66	182	56.2	177

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(916) 772-0872

Client: AECOM
File Number: 2002099
Route: LASUEN ST
Location: S. of ARBORETUM RD

Site Ref: 6
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	1	0	1	0	6	0	6	0	2	0	3.2
00:15	0	1	0	0	1	4	0	4	0	1	0.2	2.2
00:30	0	0	0	0	0	0	0	4	0	3	0	1.4
00:45	0	2	0	1	0	2	0	1	0	2	0	1.6
01:00	0	4	0	5	0	6	0	3	0	0	0	3.6
01:15	0	2	0	1	0	1	0	3	0	1	0	1.6
01:30	0	4	0	3	0	1	0	2	0	0	0	2
01:45	0	2	0	4	0	1	0	1	0	3	0	2.2
02:00	0	3	0	2	0	1	0	2	0	1	0	1.8
02:15	0	2	0	1	0	3	0	0	0	1	0	1.4
02:30	0	2	0	0	0	1	0	1	0	1	0	1
02:45	0	4	0	1	0	0	0	3	0	3	0	2.2
03:00	0	2	0	1	1	3	0	5	0	2	0.2	2.6
03:15	0	6	0	1	0	2	0	2	0	2	0	2.6
03:30	0	2	0	2	0	2	0	2	0	2	0	2
03:45	0	3	0	5	0	3	0	2	0	5	0	3.6
04:00	0	2	0	2	0	1	0	0	0	4	0	1.8
04:15	0	0	0	2	0	8	0	2	0	1	0	2.6
04:30	0	1	0	2	0	1	0	2	0	4	0	2
04:45	0	1	0	2	0	1	0	3	0	1	0	1.6
05:00	1	1	0	4	0	3	0	1	0	1	0.2	2
05:15	0	0	0	0	0	1	0	3	2	1	0.4	1
05:30	0	0	0	1	0	1	0	0	0	2	0	0.8
05:45	0	1	0	3	1	2	0	3	0	2	0.2	2.2
06:00	0	0	0	2	0	1	0	4	0	4	0	2.2
06:15	0	5	0	2	0	1	0	0	0	3	0	2.2
06:30	0	1	0	1	0	0	0	0	0	1	0	0.6
06:45	0	1	0	0	0	1	0	0	2	1	0.4	0.6
07:00	1	2	1	1	0	0	0	0	0	1	0.4	0.8
07:15	2	0	0	1	2	0	0	0	1	1	1	0.4
07:30	0	1	0	0	0	1	0	0	1	0	0.2	0.4
07:45	1	0	1	0	1	0	2	0	0	0	1	0
08:00	5	0	0	0	1	0	1	0	6	1	2.6	0.2
08:15	1	0	3	0	2	1	0	1	0	0	1.2	0.4
08:30	1	0	4	0	2	0	3	0	2	0	2.4	0
08:45	2	0	1	0	0	0	0	0	0	0	0.6	0
09:00	3	0	5	0	5	0	5	1	1	0	3.8	0.2
09:15	1	2	1	1	2	0	1	0	2	0	1.4	0.6
09:30	1	0	1	0	2	0	2	0	2	0	1.6	0
09:45	0	0	2	0	3	1	2	1	2	0	1.8	0.4
10:00	0	0	3	0	2	0	0	0	0	0	1	0
10:15	0	0	3	0	2	0	0	0	0	0	1	0
10:30	5	0	1	0	2	0	1	1	0	1	1.8	0.4
10:45	2	0	2	0	3	0	4	0	2	0	2.6	0
11:00	2	0	2	0	1	0	1	1	1	0	1.4	0.2
11:15	2	0	0	0	1	0	2	0	7	0	2.4	0
11:30	4	0	6	0	3	0	3	1	4	0	4	0.2
11:45	0	0	2	0	2	0	6	0	2	0	2.4	0
Totals	34	58	38	53	39	60	33	65	37	58	36	59
Day Total	92		91		99		98		95		95	
AM Pct	37.0%		41.8%		39.4%		33.7%		38.9%		38.1%	
Peak Hour	10:30	14:30	8:15	13:00	11:30	15:30	11:45	12:00	11:15	15:45	11:15	15:00
Peak Volume	11	14	13	13	15	14	20	15	15	14	12	11
P.H.F	0.5500	0.5833	0.6500	0.6500	0.6250	0.4375	0.8333	0.6250	0.5357	0.7000	0.7500	0.7500

AECOM

7:00-8:00 AM	4	4	2	8	3	11	2	7	2	10	3	8
7:15-8:15 AM	8	3	1	10	4	13	3	8	8	7	4.8	8.2
7:30-8:30 AM	7	3	4	8	4	6	3	9	7	7	5	6.6
7:45-8:45 AM	8	2	8	7	6	6	6	7	8	5	7.2	5.4
8:00-9:00 AM	9	2	8	8	5	7	4	7	8	6	6.8	6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002100
Route: GALVEZ ST
Location: S. of ARBORETUM RD

Site Ref: 7
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	4	52	2	45	0	55	0	35	2	37	1.6	44.8
00:15	1	44	2	54	0	48	3	43	2	39	1.6	45.6
00:30	0	45	3	40	1	47	1	64	2	52	1.4	49.6
00:45	0	58	0	39	1	44	1	40	0	57	0.4	47.6
01:00	0	50	1	51	1	51	2	52	2	57	1.2	52.2
01:15	1	60	0	43	0	44	0	63	0	58	0.2	53.6
01:30	0	48	1	52	0	51	1	38	1	57	0.6	49.2
01:45	0	52	1	52	0	49	0	66	0	53	0.2	54.4
02:00	0	52	1	42	1	56	0	42	0	49	0.4	48.2
02:15	1	45	0	50	0	67	0	55	3	42	0.8	51.8
02:30	1	50	1	29	1	50	1	40	0	59	0.8	45.6
02:45	0	45	0	42	0	52	0	49	0	51	0	47.8
03:00	1	45	0	32	1	51	0	40	0	61	0.4	45.8
03:15	0	51	2	45	1	53	1	39	0	58	0.8	49.2
03:30	2	49	2	49	1	54	1	56	0	50	1.2	51.6
03:45	0	42	0	48	0	58	2	45	2	49	0.8	48.4
04:00	0	27	0	51	1	51	0	41	0	43	0.2	42.6
04:15	3	45	3	35	3	45	0	40	0	47	1.8	42.4
04:30	7	28	8	36	9	32	7	29	12	50	8.6	35
04:45	5	32	5	38	10	40	7	38	6	42	6.6	38
05:00	6	29	8	43	9	42	10	42	11	41	8.8	39.4
05:15	17	39	12	35	15	23	14	29	12	34	14	32
05:30	32	19	25	37	26	29	30	33	34	27	29.4	29
05:45	54	27	42	30	55	41	46	30	45	29	48.4	31.4
06:00	34	31	34	39	34	25	31	26	31	36	32.8	31.4
06:15	25	22	34	43	32	24	40	16	37	34	33.6	27.8
06:30	55	22	50	17	62	18	63	28	57	34	57.4	23.8
06:45	39	18	57	21	60	16	43	21	49	23	49.6	19.8
07:00	43	26	43	32	34	23	38	16	37	34	39	26.2
07:15	46	14	54	12	55	20	45	24	50	20	50	18
07:30	61	23	53	20	51	7	67	24	58	30	58	20.8
07:45	52	12	52	10	59	10	69	16	43	22	55	14
08:00	53	18	62	21	42	10	56	20	45	28	51.6	19.4
08:15	37	10	72	7	50	10	48	20	52	22	51.8	13.8
08:30	44	17	61	11	45	8	59	18	45	21	50.8	15
08:45	45	12	40	10	84	8	45	5	52	15	53.2	10
09:00	50	11	49	11	58	10	52	14	52	17	52.2	12.6
09:15	43	8	45	11	54	7	43	12	44	6	45.8	8.8
09:30	54	6	52	10	47	4	52	7	47	13	50.4	8
09:45	54	5	55	5	70	4	61	4	51	12	58.2	6
10:00	38	5	40	5	44	6	40	5	55	6	43.4	5.4
10:15	59	7	39	4	49	3	33	6	47	7	45.4	5.4
10:30	40	4	38	7	49	6	35	5	60	5	44.4	5.4
10:45	55	2	57	4	63	8	51	7	54	5	56	5.2
11:00	48	4	55	5	63	3	42	4	51	7	51.8	4.6
11:15	50	2	35	2	42	3	41	2	47	6	43	3
11:30	39	1	41	3	50	2	44	3	48	5	44.4	2.8
11:45	47	0	52	0	62	3	58	3	45	5	52.8	2.2
Totals	1246	1314	1289	1328	1395	1371	1283	1355	1291	1555	1301	1385
Day Total	2560		2617		2766		2638		2846		2685	
AM Pct	48.7%		49.3%		50.4%		48.6%		45.4%		48.4%	
Peak Hour	7:15	12:45	7:45	13:00	8:45	14:00	7:30	12:30	10:00	12:45	7:30	13:00
Peak Volume	212	216	247	198	243	225	240	219	216	229	216	209
P.H.F	0.8689	0.9000	0.8576	0.9519	0.7232	0.8396	0.8696	0.8555	0.9000	0.9871	0.9328	0.9623

AECOM

4:00-5:00 PM	202	132	202	160	199	168	219	148	188	182	202	158
4:15-5:15 PM	212	134	221	152	207	159	237	149	196	180	214.6	154.8
4:30-5:30 PM	203	128	239	152	202	137	240	138	198	167	216.4	144.4
4:45-5:45 PM	186	119	247	153	196	134	232	142	185	144	209.2	138.4
5:00-6:00 PM	179	114	235	145	221	135	208	134	194	131	207.4	131.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002101
Route: GALVEZ ST
Location: S. of ARBORETUM RD

Site Ref: 7
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	6	48	4	50	5	45	2	52	4	55	4.2	50
00:15	4	39	4	54	4	54	1	48	1	55	2.8	50
00:30	0	49	2	33	1	54	2	44	3	46	1.6	45.2
00:45	2	43	2	47	2	43	1	51	3	60	2	48.8
01:00	1	37	1	42	4	63	3	42	3	47	2.4	46.2
01:15	0	56	0	55	3	58	1	48	4	52	1.6	53.8
01:30	0	60	0	53	1	64	6	60	1	56	1.6	58.6
01:45	0	53	1	47	1	53	1	54	1	55	0.8	52.4
02:00	0	73	1	62	0	61	1	50	0	54	0.4	60
02:15	0	73	1	54	0	66	0	60	2	50	0.6	60.6
02:30	0	78	4	76	4	86	1	73	2	73	2.2	77.2
02:45	1	70	2	63	2	72	5	48	2	71	2.4	64.8
03:00	2	54	0	64	1	52	1	68	2	66	1.2	60.8
03:15	0	55	3	63	1	79	1	64	2	66	1.4	65.4
03:30	0	68	1	77	1	82	2	69	0	79	0.8	75
03:45	0	58	2	50	1	74	1	60	1	59	1	60.2
04:00	0	75	0	90	2	62	2	64	2	62	1.2	70.6
04:15	0	58	1	78	1	71	0	72	1	73	0.6	70.4
04:30	2	53	1	71	2	70	3	68	2	75	2	67.4
04:45	0	57	0	56	1	66	2	52	1	59	0.8	58
05:00	0	58	2	81	2	83	1	86	3	81	1.6	77.8
05:15	2	60	1	57	2	51	1	56	2	62	1.6	57.2
05:30	0	65	1	62	4	62	2	57	0	69	1.4	63
05:45	2	50	3	37	2	57	2	39	5	63	2.8	49.2
06:00	3	49	3	44	3	55	8	65	5	51	4.4	52.8
06:15	5	40	4	43	5	44	11	45	1	41	5.2	42.6
06:30	8	39	8	65	2	35	8	39	8	57	6.8	47
06:45	16	47	9	53	13	37	8	34	10	43	11.2	42.8
07:00	14	41	15	40	11	42	11	40	13	42	12.8	41
07:15	8	42	25	44	19	29	15	36	15	29	16.4	36
07:30	13	22	23	32	16	30	17	41	15	23	16.8	29.6
07:45	27	20	13	18	17	14	17	36	30	33	20.8	24.2
08:00	32	21	23	19	33	19	40	25	34	29	32.4	22.6
08:15	23	21	26	20	24	20	33	26	33	28	27.8	23
08:30	35	18	30	24	34	24	28	29	33	26	32	24.2
08:45	26	14	29	22	39	11	32	8	31	26	31.4	16.2
09:00	33	11	33	17	47	10	26	22	43	11	36.4	14.2
09:15	36	9	40	13	45	14	28	12	43	15	38.4	12.6
09:30	42	10	30	11	52	20	37	14	41	9	40.4	12.8
09:45	52	8	54	14	51	3	38	6	46	11	48.2	8.4
10:00	26	10	42	10	40	8	44	6	43	9	39	8.6
10:15	42	8	30	10	50	7	42	9	36	7	40	8.2
10:30	32	5	32	4	50	8	38	6	40	8	38.4	6.2
10:45	37	5	44	9	43	6	35	3	40	5	39.8	5.6
11:00	45	9	46	5	54	5	56	6	50	8	50.2	6.6
11:15	44	2	35	5	48	9	50	7	47	5	44.8	5.6
11:30	49	12	52	9	42	8	35	5	61	12	47.8	9.2
11:45	40	3	55	6	53	2	39	9	45	7	46.4	5.4
Totals	710	1856	738	1959	838	1988	738	1914	810	2023	767	1948
Day Total	2566		2697		2826		2652		2833		2715	
AM Pct	27.7%		27.4%		29.7%		27.8%		28.6%		28.2%	
Peak Hour	11:15	14:00	11:30	15:30	11:45	15:15	11:45	16:15	11:30	16:15	11:30	15:30
Peak Volume	181	294	211	295	206	297	183	278	216	288	194	276
P.H.F	0.9235	0.9423	0.9591	0.8194	0.9537	0.9055	0.8798	0.8081	0.8852	0.8889	0.9710	0.9207

AECOM

7:00-8:00 AM	62	243	76	295	63	269	60	256	73	269	67	266.4
7:15-8:15 AM	80	226	84	286	85	290	89	278	94	288	86.4	273.6
7:30-8:30 AM	95	228	85	265	90	270	107	262	112	277	97.8	260.4
7:45-8:45 AM	117	240	92	256	108	262	118	251	130	271	113	256
8:00-9:00 AM	116	233	108	237	130	253	133	238	131	275	123.6	247.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002102
Route: SERRA ST
Location: SW. of EL CAMINO REAL

Site Ref: 8
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	6	19	5	19	2	22	6	18	3	25	4.4	20.6
00:15	2	35	3	29	2	32	3	32	2	24	2.4	30.4
00:30	1	36	4	20	0	47	0	30	1	43	1.2	35.2
00:45	4	36	1	24	2	35	1	31	0	37	1.6	32.6
01:00	0	22	0	23	2	25	1	28	1	33	0.8	26.2
01:15	2	32	1	22	1	24	1	27	1	33	1.2	27.6
01:30	0	26	0	26	2	25	0	18	4	38	1.2	26.6
01:45	2	28	2	31	0	32	0	27	0	27	0.8	29
02:00	0	17	0	17	1	25	0	20	1	19	0.4	19.6
02:15	1	19	0	32	1	20	0	14	1	26	0.6	22.2
02:30	0	23	0	19	1	26	0	23	1	21	0.4	22.4
02:45	0	30	1	18	0	22	0	20	0	35	0.2	25
03:00	1	15	0	25	0	34	0	23	1	19	0.4	23.2
03:15	0	33	1	22	0	11	0	20	0	23	0.2	21.8
03:30	0	21	0	25	1	24	0	25	1	25	0.4	24
03:45	0	18	1	21	0	33	0	24	0	27	0.2	24.6
04:00	3	20	1	21	3	24	3	21	1	37	2.2	24.6
04:15	0	19	0	32	1	28	1	24	0	27	0.4	26
04:30	3	24	2	27	3	22	3	27	2	21	2.6	24.2
04:45	2	35	3	24	2	23	4	24	5	30	3.2	27.2
05:00	6	21	5	29	6	20	5	19	8	22	6	22.2
05:15	11	23	17	24	16	24	13	23	17	27	14.8	24.2
05:30	11	21	15	24	10	27	17	28	10	28	12.6	25.6
05:45	23	28	30	20	27	25	15	32	27	40	24.4	29
06:00	12	14	6	30	5	27	14	28	8	33	9	26.4
06:15	13	17	9	33	17	28	24	23	12	40	15	28.2
06:30	18	16	23	31	26	16	22	23	20	32	21.8	23.6
06:45	10	17	19	24	16	30	20	27	20	25	17	24.6
07:00	14	22	16	31	13	24	13	33	11	31	13.4	28.2
07:15	17	24	11	23	17	26	12	28	11	37	13.6	27.6
07:30	16	18	17	24	13	12	19	20	15	36	16	22
07:45	35	19	34	28	27	23	31	33	24	31	30.2	26.8
08:00	17	19	22	18	35	15	24	24	29	28	25.4	20.8
08:15	34	14	30	16	31	15	36	21	36	32	33.4	19.6
08:30	24	13	21	13	27	14	19	16	23	11	22.8	13.4
08:45	18	11	32	14	35	26	25	27	28	14	27.6	18.4
09:00	38	18	20	17	23	11	28	14	18	22	25.4	16.4
09:15	30	11	25	17	26	14	24	22	27	14	26.4	15.6
09:30	24	13	35	14	20	17	22	24	22	17	24.6	17
09:45	16	11	21	15	18	10	26	9	22	16	20.6	12.2
10:00	18	16	16	11	30	13	28	10	27	9	23.8	11.8
10:15	24	4	23	11	30	11	21	12	35	12	26.6	10
10:30	22	6	25	8	19	7	24	5	26	17	23.2	8.6
10:45	31	6	25	6	24	7	24	7	31	11	27	7.4
11:00	24	3	13	7	22	2	24	4	31	14	22.8	6
11:15	23	7	34	9	22	6	24	5	18	6	24.2	6.6
11:30	23	1	26	1	28	3	22	1	26	11	25	3.4
11:45	29	1	23	1	25	2	23	3	23	10	24.6	3.4
Totals	608	902	618	976	632	989	622	997	630	1196	622	1012
Day Total	1510		1594		1621		1619		1826		1634	
AM Pct	40.3%		38.8%		39.0%		38.4%		34.5%		38.1%	
Peak Hour	11:45	12:15	8:45	18:15	8:00	12:15	7:30	12:15	10:15	12:30	7:45	12:15
Peak Volume	119	129	112	119	128	139	110	121	123	146	112	124
P.H.F	0.8264	0.8958	0.8000	0.9015	0.9143	0.7394	0.7639	0.9453	0.8786	0.8488	0.8368	0.8835

AECOM

4:00-5:00 PM	82	98	78	104	70	97	75	96	61	115	73	102
4:15-5:15 PM	85	99	84	112	92	93	86	94	79	100	85.2	99.6
4:30-5:30 PM	102	103	103	104	106	89	110	93	104	100	105	97.8
4:45-5:45 PM	110	100	107	101	120	94	110	94	112	107	111.8	99.2
5:00-6:00 PM	93	93	105	97	128	96	104	102	116	117	109.2	101

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002103
Route: SERRA ST
Location: SW. of EL CAMINO REAL

Site Ref: 8
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	6	30	8	34	4	44	6	38	3	35	5.4	36.2
00:15	5	30	5	36	4	35	5	37	4	39	4.6	35.4
00:30	3	26	9	36	7	45	3	35	8	44	6	37.2
00:45	4	37	0	30	0	30	3	29	2	48	1.8	34.8
01:00	1	27	5	34	6	35	1	35	2	38	3	33.8
01:15	1	38	1	34	2	41	3	32	2	42	1.8	37.4
01:30	1	38	0	32	1	34	1	18	3	39	1.2	32.2
01:45	1	30	2	25	2	32	0	28	1	31	1.2	29.2
02:00	7	30	3	30	4	43	5	37	6	32	5	34.4
02:15	0	34	1	31	2	37	0	34	1	41	0.8	35.4
02:30	2	42	5	69	8	60	5	39	5	54	5	52.8
02:45	0	42	2	38	2	45	2	38	2	34	1.6	39.4
03:00	0	32	0	29	0	46	1	38	2	42	0.6	37.4
03:15	0	35	1	38	1	40	2	47	1	40	1	40
03:30	0	39	1	45	1	43	0	49	1	37	0.6	42.6
03:45	1	42	0	35	1	41	1	36	1	43	0.8	39.4
04:00	0	47	2	33	0	36	1	40	0	50	0.6	41.2
04:15	1	39	2	52	2	39	1	63	0	50	1.2	48.6
04:30	0	46	0	44	0	54	1	37	1	43	0.4	44.8
04:45	1	39	1	39	1	45	1	42	1	50	1	43
05:00	1	43	2	44	2	57	3	38	3	55	2.2	47.4
05:15	1	44	2	39	1	42	0	38	3	44	1.4	41.4
05:30	4	41	2	44	3	37	5	34	3	52	3.4	41.6
05:45	2	38	1	38	3	44	3	34	6	63	3	43.4
06:00	7	41	3	40	3	46	3	44	2	59	3.6	46
06:15	5	29	8	61	5	46	11	43	4	63	6.6	48.4
06:30	15	36	7	44	13	36	12	41	7	58	10.8	43
06:45	3	34	5	34	10	31	12	31	7	67	7.4	39.4
07:00	8	33	9	34	13	36	3	39	7	48	8	38
07:15	11	32	10	33	8	38	6	37	13	50	9.6	38
07:30	14	28	12	28	14	23	15	32	15	33	14	28.8
07:45	19	18	14	18	19	23	20	23	10	33	16.4	23
08:00	20	22	20	20	26	24	24	40	20	35	22	28.2
08:15	19	9	9	27	17	23	12	32	22	32	15.8	24.6
08:30	23	19	22	21	22	24	25	22	32	17	24.8	20.6
08:45	23	13	22	19	25	15	25	17	39	27	26.8	18.2
09:00	22	17	25	22	19	14	24	22	22	24	22.4	19.8
09:15	15	9	17	15	18	17	25	16	33	24	21.6	16.2
09:30	27	22	26	19	21	11	31	26	28	27	26.6	21
09:45	29	14	29	9	25	19	20	10	23	12	25.2	12.8
10:00	32	17	28	14	30	10	28	10	29	14	29.4	13
10:15	22	7	37	9	23	8	19	6	24	8	25	7.6
10:30	23	9	24	10	17	5	26	11	36	11	25.2	9.2
10:45	27	8	35	12	33	10	21	8	22	10	27.6	9.6
11:00	31	7	32	7	27	13	29	13	33	11	30.4	10.2
11:15	27	7	31	6	36	4	31	2	31	14	31.2	6.6
11:30	25	6	30	3	29	6	40	2	28	8	30.4	5
11:45	41	6	25	3	30	3	32	6	27	11	31	5.8
Totals	530	1332	535	1417	540	1490	547	1429	575	1742	545	1482
Day Total	1862		1952		2030		1976		2317		2027	
AM Pct	28.5%		27.4%		26.6%		27.7%		24.8%		26.9%	
Peak Hour	11:45	15:45	11:45	17:30	11:45	16:30	11:30	15:30	11:45	18:00	11:45	16:15
Peak Volume	127	174	131	183	154	198	147	188	145	247	140	184
P.H.F	0.7744	0.9255	0.9097	0.7500	0.8556	0.8684	0.9187	0.7460	0.8239	0.9216	0.9395	0.9455

AECOM

7:00-8:00 AM	52	171	45	168	54	174	44	182	45	193	48	177.6
7:15-8:15 AM	64	167	56	179	67	195	65	180	58	198	62	183.8
7:30-8:30 AM	72	172	55	166	76	198	71	155	67	192	68.2	176.6
7:45-8:45 AM	81	167	65	166	84	181	81	152	84	201	79	173.4
8:00-9:00 AM	85	166	73	165	90	180	86	144	113	214	89.4	173.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002104
Route: YALE ST
Location: W. of STANFORD AVE

Site Ref: 9
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	11	0	9	0	5	1	8	0	8	0.4	8.2
00:15	1	3	1	6	1	5	0	5	0	8	0.6	5.4
00:30	0	6	0	9	0	14	0	3	1	7	0.2	7.8
00:45	0	9	1	10	0	12	0	7	1	5	0.4	8.6
01:00	0	9	0	7	0	11	2	6	1	8	0.6	8.2
01:15	0	2	0	7	2	10	0	8	1	7	0.6	6.8
01:30	0	4	0	8	0	10	1	5	0	6	0.2	6.6
01:45	0	9	0	6	0	12	2	7	0	12	0.4	9.2
02:00	0	5	0	7	1	13	0	11	0	6	0.2	8.4
02:15	0	8	0	4	0	4	0	5	0	6	0	5.4
02:30	0	11	0	8	1	3	0	3	0	7	0.2	6.4
02:45	0	4	0	5	0	6	0	2	0	6	0	4.6
03:00	0	10	0	5	0	6	0	8	0	6	0	7
03:15	1	7	0	4	0	5	0	7	0	10	0.2	6.6
03:30	0	4	0	4	0	8	0	2	0	8	0	5.2
03:45	0	7	0	5	0	3	0	12	0	11	0	7.6
04:00	0	9	0	6	0	10	0	9	0	9	0	8.6
04:15	0	3	0	8	0	8	0	12	1	14	0.2	9
04:30	0	9	0	11	0	7	1	6	0	12	0.2	9
04:45	1	3	0	13	1	14	0	8	1	9	0.6	9.4
05:00	1	12	1	13	0	7	0	13	0	8	0.4	10.6
05:15	0	8	0	8	0	8	0	13	0	12	0	9.8
05:30	0	12	1	7	1	10	2	12	1	13	1	10.8
05:45	0	8	0	16	1	18	0	10	1	17	0.4	13.8
06:00	1	7	2	13	0	7	2	10	1	16	1.2	10.6
06:15	4	11	3	7	3	8	0	8	1	12	2.2	9.2
06:30	2	7	2	12	7	8	2	14	3	8	3.2	9.8
06:45	7	6	6	11	3	5	7	6	6	17	5.8	9
07:00	4	6	4	8	7	6	2	8	6	15	4.6	8.6
07:15	3	4	1	6	4	13	4	9	3	12	3	8.8
07:30	5	7	5	8	3	6	4	9	3	17	4	9.4
07:45	4	11	5	7	5	9	11	7	7	15	6.4	9.8
08:00	7	4	8	9	7	3	5	6	2	11	5.8	6.6
08:15	12	7	10	6	6	9	5	8	6	9	7.8	7.8
08:30	9	4	2	3	6	3	7	1	7	7	6.2	3.6
08:45	8	10	10	4	13	2	3	8	8	7	8.4	6.2
09:00	13	3	10	1	10	2	7	7	9	4	9.8	3.4
09:15	11	5	9	4	6	4	6	1	7	5	7.8	3.8
09:30	6	3	6	3	8	2	6	5	8	9	6.8	4.4
09:45	3	1	2	2	6	1	3	1	8	3	4.4	1.6
10:00	3	1	5	1	2	1	6	0	6	1	4.4	0.8
10:15	6	0	2	1	7	1	4	0	9	3	5.6	1
10:30	4	0	7	0	7	2	3	3	9	3	6	1.6
10:45	2	0	5	0	4	3	7	1	6	4	4.8	1.6
11:00	6	1	6	1	3	1	7	2	6	0	5.6	1
11:15	10	0	4	0	3	1	8	2	3	3	5.6	1.2
11:30	7	1	11	0	7	0	5	2	7	1	7.4	0.8
11:45	6	0	10	0	6	2	7	0	11	4	8	1.2
Totals	148	272	139	293	141	308	130	300	150	401	142	315
Day Total	420		432		449		430		551		456	
AM Pct	35.2%		32.2%		31.4%		30.2%		27.2%		31.0%	
Peak Hour	8:15	17:00	11:30	17:45	8:45	12:30	7:45	17:00	11:30	18:45	8:45	17:00
Peak Volume	42	40	36	48	37	47	28	48	34	61	33	45
P.H.F	0.8077	0.8333	0.8182	0.7500	0.7115	0.8393	0.6364	0.9231	0.7727	0.8971	0.8367	0.8152
AECOM												
4:00-5:00 PM	16	24	15	38	19	39	21	35	19	44	18	36
4:15-5:15 PM	19	27	19	45	19	36	24	39	15	43	19.2	38
4:30-5:30 PM	28	32	28	45	21	36	25	40	18	41	24	38.8
4:45-5:45 PM	32	35	25	41	24	39	28	46	22	42	26.2	40.6
5:00-6:00 PM	36	40	30	44	32	43	20	48	23	50	28.2	45

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002105
Route: YALE ST
Location: W. of STANFORD AVE

Site Ref: 9
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	10	0	8	0	6	0	7	0	8	0.2	7.8
00:15	0	5	0	6	1	9	0	3	1	4	0.4	5.4
00:30	0	9	0	6	0	8	0	9	1	5	0.2	7.4
00:45	0	8	0	8	0	11	1	6	0	9	0.2	8.4
01:00	1	7	0	5	0	8	1	4	0	8	0.4	6.4
01:15	0	4	0	5	0	11	0	6	0	12	0	7.6
01:30	0	11	0	7	1	7	0	6	0	11	0.2	8.4
01:45	0	7	0	6	0	5	1	2	0	7	0.2	5.4
02:00	0	8	0	5	0	7	0	8	0	7	0	7
02:15	0	5	0	8	1	6	0	9	0	14	0.2	8.4
02:30	0	7	0	7	0	8	0	4	0	7	0	6.6
02:45	0	8	0	7	0	5	0	4	0	9	0	6.6
03:00	0	6	0	2	0	5	0	9	0	11	0	6.6
03:15	1	7	0	5	0	7	0	5	0	6	0.2	6
03:30	0	5	0	4	0	11	0	8	0	11	0	7.8
03:45	0	4	0	6	0	9	0	9	0	12	0	8
04:00	0	9	0	14	0	13	0	14	0	15	0	13
04:15	0	11	0	8	0	16	0	11	0	13	0	11.8
04:30	0	6	0	13	0	6	0	9	0	7	0	8.2
04:45	0	6	1	13	0	12	1	10	0	9	0.4	10
05:00	1	14	2	11	1	9	1	16	1	19	1.2	13.8
05:15	2	6	0	8	1	10	0	9	0	13	0.6	9.2
05:30	0	8	0	9	1	6	3	9	1	15	1	9.4
05:45	0	9	1	9	1	7	1	12	0	20	0.6	11.4
06:00	2	16	3	16	2	12	1	11	2	17	2	14.4
06:15	4	6	2	16	2	8	2	14	5	19	3	12.6
06:30	2	10	1	7	3	9	0	12	2	15	1.6	10.6
06:45	3	7	2	9	4	9	1	5	3	12	2.6	8.4
07:00	5	7	2	3	3	9	5	5	4	8	3.8	6.4
07:15	1	1	5	8	1	3	2	5	5	8	2.8	5
07:30	6	4	7	8	8	6	3	3	5	10	5.8	6.2
07:45	5	8	7	2	8	3	5	11	4	4	5.8	5.6
08:00	7	2	10	4	10	6	12	6	6	2	9	4
08:15	5	5	8	2	3	4	7	5	7	4	6	4
08:30	9	3	15	3	11	3	4	4	8	5	9.4	3.6
08:45	8	4	4	2	12	3	11	2	7	5	8.4	3.2
09:00	5	0	6	0	7	1	4	4	6	0	5.6	1
09:15	4	0	5	2	5	0	13	2	8	3	7	1.4
09:30	4	2	9	1	5	4	3	1	9	1	6	1.8
09:45	11	2	8	0	5	0	8	0	5	0	7.4	0.4
10:00	4	1	2	2	7	2	10	0	5	2	5.6	1.4
10:15	3	0	5	1	7	0	10	3	6	2	6.2	1.2
10:30	5	1	3	1	2	2	9	1	8	1	5.4	1.2
10:45	8	0	8	0	7	0	4	2	8	2	7	0.8
11:00	9	2	6	0	7	1	10	0	5	0	7.4	0.6
11:15	5	0	8	0	6	0	5	1	8	2	6.4	0.6
11:30	3	0	3	0	5	0	3	0	12	1	5.2	0.2
11:45	6	0	11	0	7	0	3	0	5	3	6.4	0.6
Totals	130	261	144	267	144	287	144	286	147	378	142	296
Day Total	391		411		431		430		525		438	
AM Pct	33.2%		35.0%		33.4%		33.5%		28.0%		32.4%	
Peak Hour	11:45	17:45	7:45	17:30	8:00	15:30	9:45	17:45	10:45	17:30	8:00	17:45
Peak Volume	30	41	40	50	36	49	37	49	33	71	33	49
P.H.F	0.7500	0.6406	0.6667	0.7813	0.7500	0.7656	0.9250	0.8750	0.6875	0.8875	0.8723	0.8507

AECOM

7:00-8:00 AM	17	32	21	48	20	47	15	44	18	44	18	43
7:15-8:15 AM	19	37	29	45	27	43	22	46	20	48	23.4	43.8
7:30-8:30 AM	23	32	32	45	29	37	27	44	22	48	26.6	41.2
7:45-8:45 AM	26	34	40	41	32	37	28	44	25	56	30.2	42.4
8:00-9:00 AM	29	37	37	37	36	32	34	46	28	67	32.8	43.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002106
Route: WELLESLEY ST
Location: W. of STANFORD AVE

Site Ref: 10
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	4	1	3	1	6	2	3	5	5	1.8	4.2
00:15	1	3	2	5	1	11	0	11	0	6	0.8	7.2
00:30	1	5	0	5	1	3	1	3	1	6	0.8	4.4
00:45	0	6	0	6	1	1	0	7	1	6	0.4	5.2
01:00	0	4	0	9	0	3	1	4	1	2	0.4	4.4
01:15	0	6	0	2	0	2	0	2	1	5	0.2	3.4
01:30	0	4	0	8	0	2	0	8	1	7	0.2	5.8
01:45	0	4	0	4	0	5	0	4	0	5	0	4.4
02:00	0	8	0	6	0	6	0	6	0	2	0	5.6
02:15	0	2	0	5	0	2	0	2	0	2	0	2.6
02:30	0	5	0	5	0	3	0	2	0	4	0	3.8
02:45	0	5	0	5	0	6	0	4	0	6	0	5.2
03:00	0	5	0	3	1	3	0	3	0	2	0.2	3.2
03:15	0	6	0	2	0	7	0	5	0	9	0	5.8
03:30	0	7	0	2	0	2	0	7	0	2	0	4
03:45	0	6	0	6	0	7	0	8	0	8	0	7
04:00	0	3	0	5	0	2	0	9	0	7	0	5.2
04:15	0	3	0	3	0	2	0	6	0	7	0	4.2
04:30	0	6	0	3	0	2	0	7	1	9	0.2	5.4
04:45	0	6	0	2	0	10	0	2	0	4	0	4.8
05:00	0	4	0	5	0	7	0	7	0	4	0	5.4
05:15	0	7	0	10	0	8	0	6	0	9	0	8
05:30	0	11	0	8	0	6	0	5	0	15	0	9
05:45	0	7	0	7	1	10	0	9	0	14	0.2	9.4
06:00	5	10	2	13	2	8	3	10	1	6	2.6	9.4
06:15	0	9	2	10	2	5	1	7	3	9	1.6	8
06:30	0	11	0	5	0	6	2	4	3	8	1	6.8
06:45	0	7	0	3	0	7	0	12	0	12	0	8.2
07:00	0	7	0	9	0	7	0	6	0	10	0	7.8
07:15	1	4	0	7	0	5	0	8	2	9	0.6	6.6
07:30	1	7	2	5	1	6	0	9	1	4	1	6.2
07:45	2	10	2	5	3	5	6	3	2	18	3	8.2
08:00	1	6	2	2	2	7	0	9	4	4	1.8	5.6
08:15	3	4	4	10	2	2	3	6	1	6	2.6	5.6
08:30	0	8	1	5	2	4	2	1	7	5	2.4	4.6
08:45	3	2	3	9	0	9	2	5	2	4	2	5.8
09:00	4	6	3	1	6	3	4	2	3	9	4	4.2
09:15	2	2	2	2	3	3	1	3	4	4	2.4	2.8
09:30	1	3	2	0	0	5	2	3	3	4	1.6	3
09:45	4	0	1	3	6	4	5	2	2	3	3.6	2.4
10:00	3	2	3	2	1	3	4	2	2	3	2.6	2.4
10:15	5	4	5	7	1	2	0	0	3	3	2.8	3.2
10:30	0	2	2	4	3	5	7	3	2	4	2.8	3.6
10:45	4	3	1	2	1	2	5	1	1	2	2.4	2
11:00	5	1	6	1	2	1	3	2	4	1	4	1.2
11:15	3	2	3	1	4	1	2	0	1	5	2.6	1.8
11:30	6	2	3	0	0	2	5	2	7	0	4.2	1.2
11:45	2	0	3	0	3	2	0	1	7	1	3	0.8
Totals	57	239	55	225	50	220	61	231	76	280	60	239
Day Total	296		280		270		292		356		299	
AM Pct	19.3%		19.6%		18.5%		20.9%		21.3%		20.0%	
Peak Hour	10:45	17:30	11:45	17:15	11:45	17:15	11:30	18:45	11:30	17:15	11:45	17:15
Peak Volume	18	37	16	38	23	32	19	35	25	44	19	36
P.H.F	0.7500	0.8409	0.8000	0.7308	0.5227	0.8000	0.4318	0.7292	0.8929	0.7333	0.6528	0.9521

AECOM

4:00-5:00 PM	4	18	4	13	4	16	6	24	5	27	5	19.6
4:15-5:15 PM	5	19	6	13	6	21	6	22	9	24	6.4	19.8
4:30-5:30 PM	7	23	10	20	8	27	9	22	8	26	8.4	23.6
4:45-5:45 PM	6	28	9	25	9	31	11	20	14	32	9.8	27.2
5:00-6:00 PM	7	29	10	30	6	31	7	27	14	42	8.8	31.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002107
Route: WELLESLEY ST
Location: W. of STANFORD AVE

Site Ref: 10
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	3	0	3	0	4	2	3	0	1	0.6	2.8
00:15	0	6	0	5	0	8	0	6	1	9	0.2	6.8
00:30	2	3	1	4	0	7	0	4	0	3	0.6	4.2
00:45	0	4	0	6	0	7	1	3	1	3	0.4	4.6
01:00	0	8	0	10	1	2	1	4	1	6	0.6	6
01:15	0	2	0	3	0	8	1	6	0	3	0.2	4.4
01:30	0	2	0	2	0	4	0	3	0	4	0	3
01:45	0	5	0	6	0	5	0	2	0	4	0	4.4
02:00	0	4	0	6	1	7	0	4	0	8	0.2	5.8
02:15	0	6	0	7	0	5	0	4	0	7	0	5.8
02:30	0	4	0	3	0	4	0	1	0	3	0	3
02:45	0	4	0	6	0	0	0	2	0	6	0	3.6
03:00	0	3	0	3	0	3	0	3	0	6	0	3.6
03:15	0	8	0	4	0	7	0	7	0	12	0	7.6
03:30	0	8	0	2	0	4	0	4	0	6	0	4.8
03:45	0	5	0	5	0	5	0	2	0	9	0	5.2
04:00	0	5	0	4	0	2	0	4	0	8	0	4.6
04:15	0	2	0	4	0	3	0	4	1	8	0.2	4.2
04:30	0	2	0	4	0	3	0	4	0	8	0	4.2
04:45	0	8	0	5	0	3	0	3	0	9	0	5.6
05:00	1	11	0	4	0	8	0	7	0	5	0.2	7
05:15	1	4	0	4	0	5	0	3	0	6	0.2	4.4
05:30	0	10	0	6	0	7	0	8	0	12	0	8.6
05:45	1	4	1	13	1	11	2	9	1	10	1.2	9.4
06:00	3	7	2	11	0	4	0	5	1	3	1.2	6
06:15	1	6	2	9	4	5	3	8	2	14	2.4	8.4
06:30	2	12	1	9	1	4	1	4	1	12	1.2	8.2
06:45	1	3	4	6	1	6	1	4	3	9	2	5.6
07:00	0	6	2	6	0	5	0	7	0	4	0.4	5.6
07:15	2	8	3	2	3	2	2	6	2	7	2.4	5
07:30	4	7	2	2	4	4	0	2	3	4	2.6	3.8
07:45	5	3	5	4	2	5	4	8	2	7	3.6	5.4
08:00	2	4	3	5	5	10	2	7	5	11	3.4	7.4
08:15	4	2	4	7	2	7	2	6	2	4	2.8	5.2
08:30	3	6	3	4	6	3	4	6	7	2	4.6	4.2
08:45	4	2	3	2	3	3	4	2	1	8	3	3.4
09:00	5	3	3	2	2	5	4	5	3	6	3.4	4.2
09:15	2	2	2	2	1	1	4	2	3	5	2.4	2.4
09:30	3	2	2	1	1	3	3	3	4	4	2.6	2.6
09:45	4	1	3	1	2	0	5	0	6	1	4	0.6
10:00	2	2	2	1	4	4	3	3	4	0	3	2
10:15	4	3	2	1	2	0	4	0	4	5	3.2	1.8
10:30	6	0	4	2	1	3	5	0	1	1	3.4	1.2
10:45	0	1	1	1	1	2	4	4	3	2	1.8	2
11:00	2	0	5	1	4	2	3	1	7	0	4.2	0.8
11:15	6	1	3	0	2	0	4	0	5	0	4	0.2
11:30	6	3	2	0	3	1	3	0	2	1	3.2	1
11:45	4	0	4	0	4	0	3	0	6	1	4.2	0.2
Totals	81	205	69	198	61	201	75	183	82	267	74	211
Day Total	286		267		262		258		349		284	
AM Pct	28.3%		25.8%		23.3%		29.1%		23.5%		25.9%	
Peak Hour	11:15	16:45	11:45	17:45	11:45	17:00	9:45	17:30	11:00	17:30	11:45	17:30
Peak Volume	19	33	16	42	23	31	17	30	20	39	18	32
P.H.F	0.7917	0.7500	0.8000	0.8077	0.7188	0.7045	0.8500	0.8333	0.7143	0.6964	0.6618	0.8617

AECOM

7:00-8:00 AM	11	17	12	17	9	11	6	15	7	33	9	18.6
7:15-8:15 AM	13	23	13	17	14	17	8	18	12	30	12	21
7:30-8:30 AM	15	25	14	17	13	19	8	17	12	28	12.4	21.2
7:45-8:45 AM	14	33	15	19	15	23	12	21	16	32	14.4	25.6
8:00-9:00 AM	13	29	13	27	16	31	12	27	15	33	13.8	29.4

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002108
Route: OBERLIN ST
Location: W. of STANFORD AVE

Site Ref: 11
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	2	0	2	0	0	0	1	0	3	0	1.6
00:15	0	4	0	8	0	4	0	4	0	4	0	4.8
00:30	0	1	0	3	0	1	0	1	0	3	0	1.8
00:45	0	1	0	5	1	2	0	3	0	3	0.2	2.8
01:00	0	2	0	3	0	1	0	4	0	1	0	2.2
01:15	0	3	0	3	0	2	0	0	0	1	0	1.8
01:30	0	6	0	3	0	3	0	2	0	4	0	3.6
01:45	0	2	0	1	1	2	0	2	0	1	0.2	1.6
02:00	0	3	0	3	0	3	0	2	0	2	0	2.6
02:15	0	2	0	1	0	1	0	1	0	2	0	1.4
02:30	0	1	0	1	0	1	0	1	0	3	0	1.4
02:45	0	2	0	2	1	2	0	3	0	0	0.2	1.8
03:00	0	2	0	3	0	2	0	1	0	2	0	2
03:15	0	4	0	1	0	3	0	8	0	3	0	3.8
03:30	0	2	0	2	0	6	0	2	0	2	0	2.8
03:45	0	1	0	1	0	1	0	3	0	5	0	2.2
04:00	0	6	0	3	0	3	0	4	0	4	0	4
04:15	0	1	0	1	0	3	1	2	0	2	0.2	1.8
04:30	0	2	0	5	0	4	0	5	0	3	0	3.8
04:45	0	6	0	5	0	2	0	4	0	3	0	4
05:00	0	2	0	5	0	4	0	6	0	0	0	3.4
05:15	0	4	0	6	0	3	1	7	0	4	0.2	4.8
05:30	1	6	1	2	1	6	0	3	1	2	0.8	3.8
05:45	0	1	0	7	0	0	0	2	0	8	0	3.6
06:00	0	5	0	6	0	1	0	3	0	3	0	3.6
06:15	1	5	3	1	1	4	2	2	1	3	1.6	3
06:30	3	1	0	1	0	3	0	1	0	5	0.6	2.2
06:45	1	3	0	0	1	2	1	6	1	4	0.8	3
07:00	1	5	1	1	0	2	1	2	1	7	0.8	3.4
07:15	1	1	1	3	0	2	0	0	1	3	0.6	1.8
07:30	3	4	1	2	4	1	5	1	1	4	2.8	2.4
07:45	0	2	1	1	1	3	2	2	3	3	1.4	2.2
08:00	3	2	3	2	1	1	2	1	2	3	2.2	1.8
08:15	4	2	2	2	1	0	2	1	1	0	2	1
08:30	1	1	0	3	0	1	0	3	0	1	0.2	1.8
08:45	0	1	1	0	4	2	0	1	1	1	1.2	1
09:00	0	0	5	1	1	0	1	0	0	1	1.4	0.4
09:15	1	1	0	1	1	1	0	0	2	1	0.8	0.8
09:30	2	0	0	0	1	1	3	0	2	4	1.6	1
09:45	2	1	2	0	3	0	3	1	2	0	2.4	0.4
10:00	2	0	5	0	3	0	2	0	1	3	2.6	0.6
10:15	3	0	1	1	1	0	2	1	0	1	1.4	0.6
10:30	2	0	1	0	2	1	0	0	2	0	1.4	0.2
10:45	1	0	1	0	1	0	1	0	1	0	1	0
11:00	2	1	1	0	2	0	0	1	2	2	1.4	0.8
11:15	4	1	3	0	2	1	3	0	3	0	3	0.4
11:30	2	1	2	0	0	1	1	0	3	0	1.6	0.4
11:45	5	0	4	0	2	0	1	0	4	1	3.2	0.2
Totals	45	103	39	101	36	86	34	97	35	115	38	100
Day Total	148		140		122		131		150		138	
AM Pct	30.4%		27.9%		29.5%		26.0%		23.3%		27.4%	
Peak Hour	11:00	16:45	11:45	16:30	9:45	16:45	7:30	16:30	11:30	17:45	11:45	16:30
Peak Volume	13	18	17	21	9	15	11	22	14	19	11	16
P.H.F	0.6500	0.7500	0.5313	0.8750	0.7500	0.6250	0.5500	0.7857	0.8750	0.5938	0.5938	0.8333

AECOM

4:00-5:00 PM	5	15	4	14	5	12	8	15	6	12	6	13.6
4:15-5:15 PM	7	11	6	16	6	13	9	17	7	8	7	13
4:30-5:30 PM	10	14	7	21	7	13	11	22	7	10	8.4	16
4:45-5:45 PM	8	18	6	18	3	15	6	20	6	9	5.8	16
5:00-6:00 PM	8	13	6	20	6	13	4	18	4	14	5.6	15.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002109
Route: OBERLIN ST
Location: W. of STANFORD AVE

Site Ref: 11
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	1	3	0	1	0	2	0	3	0	2	0.2	2.2
00:15	1	2	0	5	0	1	0	4	0	2	0.2	2.8
00:30	0	1	0	3	0	1	1	1	0	1	0.2	1.4
00:45	0	0	0	5	0	0	0	2	0	6	0	2.6
01:00	1	3	0	1	0	1	0	2	0	2	0.2	1.8
01:15	0	2	0	6	0	1	0	2	0	2	0	2.6
01:30	0	2	0	2	0	3	0	2	0	1	0	2
01:45	0	3	0	2	0	0	0	2	1	1	0.2	1.6
02:00	0	2	0	2	2	2	0	1	0	0	0.4	1.4
02:15	0	1	0	4	0	1	1	0	0	1	0.2	1.4
02:30	0	2	0	1	0	2	0	2	0	0	0	1.4
02:45	0	3	0	1	0	1	0	0	0	3	0	1.6
03:00	0	1	0	1	1	0	0	0	1	1	0.4	0.6
03:15	0	5	0	1	0	4	0	2	0	4	0	3.2
03:30	0	3	0	7	0	4	0	2	0	3	0	3.8
03:45	0	3	0	3	0	1	0	1	0	2	0	2
04:00	0	2	0	2	0	0	0	4	0	2	0	2
04:15	0	2	0	4	0	2	0	6	0	1	0	3
04:30	0	2	0	2	0	3	0	4	0	2	0	2.6
04:45	0	1	0	3	0	1	0	2	0	3	0	2
05:00	0	2	0	0	0	2	0	1	0	0	0	1
05:15	0	2	0	2	1	2	0	2	1	2	0.4	2
05:30	0	3	0	5	0	5	0	6	0	0	0	3.8
05:45	1	5	0	5	0	4	0	4	0	2	0.2	4
06:00	2	3	1	2	3	3	3	2	1	4	2	2.8
06:15	1	5	1	1	2	2	2	2	2	6	1.6	3.2
06:30	0	1	0	1	1	1	0	4	0	2	0.2	1.8
06:45	1	0	1	1	0	1	0	3	1	2	0.6	1.4
07:00	0	4	1	3	1	2	2	5	1	5	1	3.8
07:15	6	3	1	3	1	0	4	2	1	2	2.6	2
07:30	1	2	5	0	5	1	6	3	3	2	4	1.6
07:45	4	0	4	3	2	3	3	5	3	5	3.2	3.2
08:00	2	3	3	1	5	1	4	3	2	2	3.2	2
08:15	6	3	2	2	1	0	3	1	3	1	3	1.4
08:30	3	0	1	1	4	3	2	1	3	1	2.6	1.2
08:45	2	2	3	1	5	1	1	2	2	3	2.6	1.8
09:00	2	0	4	2	0	2	1	2	0	0	1.4	1.2
09:15	3	1	4	0	0	0	3	1	3	1	2.6	0.6
09:30	0	0	2	0	2	0	1	2	1	1	1.2	0.6
09:45	1	0	1	1	1	0	4	0	1	0	1.6	0.2
10:00	2	2	0	0	0	0	1	1	0	1	0.6	0.8
10:15	1	0	2	0	2	0	2	1	2	1	1.8	0.4
10:30	2	1	0	0	1	1	2	2	2	3	1.4	1.4
10:45	3	1	2	2	0	0	0	1	1	1	1.2	1
11:00	1	1	0	0	1	0	0	1	1	2	0.6	0.8
11:15	0	0	0	0	0	1	0	0	2	2	0.4	0.6
11:30	1	3	2	0	4	0	2	0	4	0	2.6	0.6
11:45	2	0	4	0	1	0	1	0	5	1	2.6	0.2
Totals	50	90	44	92	46	65	49	99	47	91	47	87
Day Total	140		136		111		148		138		135	
AM Pct	35.7%		32.4%		41.4%		33.1%		34.1%		35.1%	
Peak Hour	7:45	17:30	7:30	15:30	8:00	17:15	7:15	16:00	11:15	18:15	7:30	17:30
Peak Volume	15	16	14	16	15	14	17	16	13	15	13	14
P.H.F	0.6250	0.8000	0.7000	0.5714	0.7500	0.7000	0.7083	0.6667	0.6500	0.6250	0.8375	0.8625

AECOM

7:00-8:00 AM	11	7	11	11	9	6	15	16	8	8	11	9.6
7:15-8:15 AM	13	7	13	9	13	8	17	13	9	6	13	8.6
7:30-8:30 AM	13	7	14	7	13	8	16	9	11	7	13.4	7.6
7:45-8:45 AM	15	8	10	10	12	10	12	11	11	5	12	8.8
8:00-9:00 AM	13	12	9	12	15	13	10	13	10	4	11.4	10.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002110
Route: OLMSTEAD RD
Location: N. of ESCONDIDO RD

Site Ref: 12
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	2	0	3	1	3	0	2	0	3	0.2	2.6
00:15	0	0	0	4	0	5	0	2	0	2	0	2.6
00:30	0	3	0	0	0	2	0	1	1	0	0.2	1.2
00:45	0	1	0	0	0	0	0	1	0	1	0	0.6
01:00	0	2	0	0	0	1	0	2	0	0	0	1
01:15	0	1	0	0	0	2	0	0	0	2	0	1
01:30	0	2	0	1	0	1	0	3	0	2	0	1.8
01:45	0	0	0	0	1	1	0	3	0	1	0.2	1
02:00	0	0	0	1	0	1	0	1	0	0	0	0.6
02:15	0	1	0	0	0	2	0	0	0	0	0	0.6
02:30	0	2	0	0	0	0	0	3	1	1	0.2	1.2
02:45	0	1	0	0	0	1	1	2	0	0	0.2	0.8
03:00	0	4	0	0	0	2	0	1	0	2	0	1.8
03:15	0	0	0	1	0	1	0	0	0	1	0	0.6
03:30	0	0	0	1	1	2	0	1	0	1	0.2	1
03:45	0	2	0	1	0	1	0	2	0	1	0	1.4
04:00	0	3	0	3	0	1	0	3	1	6	0.2	3.2
04:15	0	4	0	1	0	4	0	7	0	5	0	4.2
04:30	0	2	0	0	0	2	0	2	0	0	0	1.2
04:45	0	3	0	3	0	1	0	1	0	0	0	1.6
05:00	0	2	0	3	0	1	0	4	0	1	0	2.2
05:15	0	2	0	1	0	5	0	2	0	3	0	2.6
05:30	1	1	0	0	0	2	0	0	1	2	0.4	1
05:45	0	0	1	1	0	1	1	1	0	2	0.4	1
06:00	1	2	1	1	1	0	1	2	1	2	1	1.4
06:15	1	0	1	1	1	1	1	1	0	0	0.8	0.6
06:30	2	0	0	2	1	4	0	0	2	2	1	1.6
06:45	0	4	1	0	0	0	2	1	2	4	1	1.8
07:00	4	2	4	1	4	1	3	1	8	0	4.6	1
07:15	6	0	10	1	5	0	8	1	4	0	6.6	0.4
07:30	6	2	3	1	6	0	7	1	7	0	5.8	0.8
07:45	2	1	10	0	5	1	5	1	5	2	5.4	1
08:00	4	1	4	0	2	0	3	1	3	1	3.2	0.6
08:15	3	1	5	0	1	0	3	0	2	0	2.8	0.2
08:30	0	1	2	0	1	0	3	0	1	0	1.4	0.2
08:45	0	0	4	0	5	0	3	0	3	0	3	0
09:00	0	0	0	0	0	0	1	0	0	2	0.2	0.4
09:15	0	0	1	0	0	0	0	0	1	1	0.4	0.2
09:30	2	0	0	0	1	0	1	0	2	1	1.2	0.2
09:45	0	1	1	0	1	0	0	0	0	0	0.4	0.2
10:00	0	0	2	1	2	0	0	0	0	0	0.8	0.2
10:15	1	0	0	0	0	0	1	0	2	0	0.8	0
10:30	0	0	0	0	1	0	1	0	3	0	1	0
10:45	1	0	0	0	0	0	1	0	0	0	0.4	0
11:00	0	0	3	0	1	0	1	0	0	0	1	0
11:15	0	0	0	1	2	0	2	0	2	0	1.2	0.2
11:30	0	0	0	0	1	0	3	0	1	0	1	0
11:45	2	0	1	0	0	2	0	0	6	0	1.8	0.4
Totals	36	53	54	33	44	51	52	53	59	51	49	48
Day Total	89		87		95		105		110		97	
AM Pct	40.4%		62.1%		46.3%		49.5%		53.6%		50.4%	
Peak Hour	7:00	16:00	7:00	12:00	7:00	12:00	7:00	15:45	7:00	15:30	7:00	16:00
Peak Volume	18	12	27	7	20	10	23	14	24	13	22	10
P.H.F	0.7500	0.7500	0.6750	0.4375	0.8333	0.5000	0.7188	0.5000	0.7500	0.5417	0.8485	0.6071
AECOM												
4:00-5:00 PM	18	12	27	7	20	8	23	13	24	11	22	10.2
4:15-5:15 PM	18	11	27	7	18	8	23	14	19	6	21	9.2
4:30-5:30 PM	15	9	22	7	14	9	18	9	17	4	17.2	7.6
4:45-5:45 PM	9	8	21	7	9	9	14	7	11	6	12.8	7.4
5:00-6:00 PM	7	5	15	5	9	9	12	7	9	8	10.4	6.8

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002111
Route: OLMSTEAD RD
Location: N. of ESCONDIDO RD

Site Ref: 12
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	1	0	0	1	6	0	6	0	3	0	3.4
00:15	0	7	0	0	6	0	6	0	6	0	5	6
00:30	0	3	0	0	0	2	1	1	0	1	0.2	1.4
00:45	0	1	0	0	0	1	0	7	0	0	0	1.8
01:00	0	3	0	2	0	1	0	4	0	3	0	2.6
01:15	0	1	0	8	0	3	0	2	0	4	0	3.6
01:30	0	0	0	5	0	3	0	2	0	3	0	2.6
01:45	2	2	0	2	0	1	0	8	0	3	0.4	3.2
02:00	0	7	0	4	0	2	0	3	0	7	0	4.6
02:15	0	0	0	1	0	1	0	0	0	3	0	1
02:30	0	2	0	0	0	2	0	5	0	5	0	2.8
02:45	0	0	0	0	0	1	0	4	0	0	0	1
03:00	0	3	0	1	1	1	0	0	0	2	0.2	1.4
03:15	0	3	0	6	0	9	0	7	0	5	0	6
03:30	0	1	0	2	0	1	0	2	0	0	0	1.2
03:45	0	5	0	1	0	0	0	4	0	2	0	2.4
04:00	0	5	0	9	0	5	0	5	0	4	0	5.6
04:15	0	10	0	1	0	7	0	9	0	0	0	5.4
04:30	0	6	0	7	0	8	0	9	0	10	0	8
04:45	0	1	0	1	0	3	0	7	0	3	0	3
05:00	0	7	0	7	0	10	0	2	0	8	0	6.8
05:15	0	2	0	0	0	1	0	5	0	1	0	1.8
05:30	0	2	0	4	0	7	0	1	0	0	0	2.8
05:45	0	1	2	0	2	4	0	4	0	2	0.8	2.2
06:00	2	0	0	2	0	1	2	1	1	0	1	0.8
06:15	0	3	0	0	0	1	0	0	1	0	0.2	0.8
06:30	0	0	0	0	2	2	0	1	0	3	0.4	1.2
06:45	0	0	0	0	0	0	2	0	0	3	0.4	0.6
07:00	0	0	0	0	0	0	0	1	0	0	0	0.2
07:15	0	0	0	0	2	0	2	0	2	2	1.2	0.4
07:30	5	0	6	2	0	0	5	0	2	0	3.6	0.4
07:45	3	2	4	0	2	0	2	4	3	0	2.8	1.2
08:00	0	2	2	0	1	0	4	0	4	1	2.2	0.6
08:15	0	0	2	0	4	0	4	0	3	0	2.6	0
08:30	4	2	3	0	2	0	5	1	5	0	3.8	0.6
08:45	1	0	5	0	4	2	7	0	4	2	4.2	0.8
09:00	4	0	2	1	0	0	3	0	1	0	2	0.2
09:15	4	0	4	0	0	0	2	1	6	1	3.2	0.4
09:30	0	0	0	0	0	0	0	0	4	2	0.8	0.4
09:45	0	0	0	0	0	0	2	0	2	0	0.8	0
10:00	0	0	1	2	4	0	0	0	0	0	1	0.4
10:15	0	0	1	0	1	0	0	0	6	0	1.6	0
10:30	1	2	5	0	0	0	5	0	1	0	2.4	0.4
10:45	1	0	2	0	1	0	2	0	3	0	1.8	0
11:00	3	0	2	0	1	0	2	0	3	0	2.2	0
11:15	1	0	0	0	0	1	2	0	2	0	1	0.2
11:30	1	0	1	1	0	0	3	2	4	0	1.8	0.6
11:45	0	0	0	0	0	2	2	0	3	0	1	0.4
Totals	32	84	42	76	27	94	57	114	60	88	44	91
Day Total	116		118		121		171		148		135	
AM Pct	27.6%		35.6%		22.3%		33.3%		40.5%		32.3%	
Peak Hour	8:30	15:45	7:30	13:15	11:45	16:15	8:00	16:00	8:00	16:30	8:30	16:15
Peak Volume	13	26	14	19	14	28	20	30	16	22	13	23
P.H.F	0.8125	0.6500	0.5833	0.5938	0.5833	0.7000	0.7143	0.8333	0.8000	0.5500	0.7857	0.7250

AECOM

7:00-8:00 AM	8	22	10	18	4	23	9	30	7	17	8	22
7:15-8:15 AM	8	24	12	16	5	28	13	27	11	21	9.8	23.2
7:30-8:30 AM	8	16	14	15	7	22	15	23	12	22	11.2	19.6
7:45-8:45 AM	7	12	11	12	9	21	15	15	15	12	11.4	14.4
8:00-9:00 AM	5	12	12	11	11	22	20	12	16	11	12.8	13.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002112
Route: BOWDOIN ST
Location: W. of STANFORD AVE

Site Ref: 13
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	2	20	1	28	1	30	4	24	1	33	1.8	27
00:15	1	29	4	36	1	29	0	30	3	38	1.8	32.4
00:30	1	22	2	28	1	30	1	32	3	31	1.6	28.6
00:45	2	23	1	25	1	24	2	38	1	29	1.4	27.8
01:00	1	23	0	29	3	24	2	33	1	18	1.4	25.4
01:15	0	26	0	19	0	32	1	18	2	26	0.6	24.2
01:30	0	28	0	37	0	23	0	30	0	23	0	28.2
01:45	1	20	0	33	0	31	1	25	1	26	0.6	27
02:00	0	22	0	26	0	28	0	29	0	33	0	27.6
02:15	0	20	1	23	1	28	0	32	1	34	0.6	27.4
02:30	0	11	1	27	0	37	0	28	0	30	0.2	26.6
02:45	0	31	1	30	0	27	0	24	0	25	0.2	27.4
03:00	1	27	2	29	0	19	2	23	2	23	1.4	24.2
03:15	1	16	1	23	1	32	1	21	3	31	1.4	24.6
03:30	0	20	0	24	0	28	0	33	0	35	0	28
03:45	1	31	1	30	1	40	3	28	0	39	1.2	33.6
04:00	3	33	2	39	3	23	1	34	3	43	2.4	34.4
04:15	0	28	0	27	0	38	0	32	2	31	0.4	31.2
04:30	3	23	1	22	4	31	7	21	8	28	4.6	25
04:45	2	23	1	22	4	32	5	30	5	44	3.4	30.2
05:00	5	26	4	26	2	41	2	26	0	26	2.6	29
05:15	10	22	10	27	10	26	9	18	12	41	10.2	26.8
05:30	25	29	20	19	33	34	21	26	25	34	24.8	28.4
05:45	40	32	39	29	30	35	32	28	29	33	34	31.4
06:00	23	33	26	28	28	30	26	22	31	25	26.8	27.6
06:15	18	24	29	22	32	20	28	25	16	30	24.6	24.2
06:30	22	28	28	25	32	20	37	28	29	31	29.6	26.4
06:45	29	23	32	29	26	19	27	21	29	33	28.6	25
07:00	20	17	27	16	23	26	29	24	17	33	23.2	23.2
07:15	28	11	31	18	40	12	32	16	22	29	30.6	17.2
07:30	49	12	53	12	41	12	54	12	51	25	49.6	14.6
07:45	55	11	64	17	54	11	56	12	45	23	54.8	14.8
08:00	53	11	47	9	48	13	47	17	42	14	47.4	12.8
08:15	35	12	51	11	64	11	53	16	46	22	49.8	14.4
08:30	50	8	41	12	36	11	38	16	37	10	40.4	11.4
08:45	29	10	36	12	48	12	39	6	35	15	37.4	11
09:00	38	9	42	3	33	7	27	13	14	19	30.8	10.2
09:15	31	8	33	7	25	4	33	7	42	17	32.8	8.6
09:30	27	3	30	10	22	8	36	5	43	11	31.6	7.4
09:45	35	6	36	6	33	4	31	12	29	9	32.8	7.4
10:00	21	3	24	10	36	8	25	6	25	16	26.2	8.6
10:15	22	5	27	8	31	5	30	1	25	14	27	6.6
10:30	25	7	31	5	22	3	31	3	18	10	25.4	5.6
10:45	24	2	29	1	24	2	20	3	29	5	25.2	2.6
11:00	25	2	31	4	32	2	24	2	26	5	27.6	3
11:15	21	0	23	2	28	3	26	5	31	5	25.8	3
11:30	33	6	18	2	26	3	25	3	31	6	26.6	4
11:45	38	1	37	1	36	1	40	2	36	2	37.4	1.4
Totals	850	837	918	928	916	969	908	940	851	1163	889	967
Day Total	1687		1846		1885		1848		2014		1856	
AM Pct	50.4%		49.7%		48.6%		49.1%		42.3%		47.9%	
Peak Hour	7:45	17:30	7:30	15:30	7:30	16:15	7:30	12:15	7:30	15:15	7:30	15:30
Peak Volume	193	118	215	120	207	142	210	133	184	148	202	127
P.H.F	0.8773	0.8939	0.8398	0.7692	0.8086	0.8659	0.9375	0.8750	0.9020	0.8605	0.9197	0.9244

AECOM

4:00-5:00 PM	152	107	175	110	158	124	171	117	135	146	158	120.8
4:15-5:15 PM	185	100	195	97	183	142	189	109	160	129	182.4	115.4
4:30-5:30 PM	192	94	215	97	207	130	210	95	184	139	201.6	111
4:45-5:45 PM	193	100	203	94	202	133	194	100	170	145	192.4	114.4
5:00-6:00 PM	167	109	175	101	196	136	177	98	160	134	175	115.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002113
Route: BOWDOIN ST
Location: W. of STANFORD AVE

Site Ref: 13
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	3	27	2	24	0	28	2	40	4	38	2.2	31.4
00:15	1	18	4	32	1	34	0	32	2	27	1.6	28.6
00:30	0	24	0	27	5	27	4	32	0	28	1.8	27.6
00:45	1	23	0	25	0	31	1	27	1	48	0.6	30.8
01:00	3	27	0	33	0	40	2	33	0	51	1	36.8
01:15	0	33	0	23	0	26	0	38	2	23	0.4	28.6
01:30	0	31	0	22	0	35	1	26	2	28	0.6	28.4
01:45	0	22	1	35	0	20	0	31	2	31	0.6	27.8
02:00	0	30	1	30	1	37	1	39	0	31	0.6	33.4
02:15	0	33	2	40	1	27	1	37	1	40	1	35.4
02:30	0	67	1	56	2	56	2	68	0	68	1	63
02:45	0	53	1	46	1	36	0	38	3	43	1	43.2
03:00	0	49	0	45	1	39	0	45	1	50	0.4	45.6
03:15	0	60	0	52	0	74	0	68	0	64	0	63.6
03:30	1	54	1	58	1	61	0	69	1	62	0.8	60.8
03:45	0	48	0	55	0	55	0	51	0	54	0	52.6
04:00	1	45	0	52	0	58	0	55	0	50	0.2	52
04:15	0	42	1	42	0	67	0	48	0	55	0.2	50.8
04:30	0	45	1	49	1	52	0	57	0	44	0.4	49.4
04:45	0	44	0	47	0	51	1	59	0	47	0.2	49.6
05:00	1	63	0	60	0	74	0	62	1	58	0.4	63.4
05:15	1	48	3	58	2	58	2	38	0	57	1.6	51.8
05:30	0	40	2	41	1	38	1	57	2	52	1.2	45.6
05:45	1	40	3	40	5	29	2	42	4	43	3	38.8
06:00	2	38	1	32	5	33	3	39	1	44	2.4	37.2
06:15	5	34	3	34	7	38	0	37	4	46	3.8	37.8
06:30	8	21	13	34	6	22	9	31	5	43	8.2	30.2
06:45	4	30	5	27	9	19	9	28	11	31	7.6	27
07:00	7	26	3	27	5	13	7	17	8	29	6	22.4
07:15	8	15	7	11	7	20	3	15	5	34	6	19
07:30	9	21	14	18	9	16	12	13	8	24	10.4	18.4
07:45	10	6	17	16	10	15	11	12	10	13	11.6	12.4
08:00	29	13	15	13	17	12	29	9	11	17	20.2	12.8
08:15	18	16	17	8	19	13	24	9	19	16	19.4	12.4
08:30	21	18	18	19	21	18	15	17	24	19	19.8	18.2
08:45	25	6	23	6	17	9	21	8	17	15	20.6	8.8
09:00	21	5	14	12	16	11	15	9	17	12	16.6	9.8
09:15	14	8	19	5	21	12	10	10	23	7	17.4	8.4
09:30	18	6	17	8	31	6	13	10	14	14	18.6	8.8
09:45	20	3	17	10	22	2	24	6	22	5	21	5.2
10:00	26	5	16	4	9	4	15	3	37	6	20.6	4.4
10:15	14	5	20	4	18	4	17	5	30	7	19.8	5
10:30	14	1	17	1	19	6	15	1	22	7	17.4	3.2
10:45	18	3	19	3	17	1	28	4	20	5	20.4	3.2
11:00	13	2	29	3	28	2	24	0	18	4	22.4	2.2
11:15	22	3	25	0	26	3	22	3	28	6	24.6	3
11:30	19	2	18	0	24	1	36	2	33	3	26	1.6
11:45	19	1	30	3	25	1	24	1	26	1	24.8	1.4
Totals	377	1254	400	1290	410	1334	406	1381	439	1500	406	1352
Day Total	1631		1690		1744		1787		1939		1758	
AM Pct	23.1%		23.7%		23.5%		22.7%		22.6%		23.1%	
Peak Hour	8:00	14:30	11:45	15:15	11:45	15:15	11:30	15:15	11:15	15:00	11:45	15:15
Peak Volume	93	229	113	217	114	248	132	243	125	230	112	229
P.H.F	0.8017	0.8545	0.8828	0.9353	0.8382	0.8378	0.8250	0.8804	0.8224	0.8984	0.8949	0.9002

AECOM

7:00-8:00 AM	34	176	41	190	31	228	33	219	31	196	34	201.8
7:15-8:15 AM	56	194	53	198	43	244	55	226	34	204	48.2	213.2
7:30-8:30 AM	66	200	63	214	55	235	76	216	48	206	61.6	214.2
7:45-8:45 AM	78	195	67	206	67	221	79	216	64	214	71	210.4
8:00-9:00 AM	93	191	73	199	74	199	89	199	71	210	80	199.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002114
Route: RAIMUNDO WAY
Location: W. of STANFORD AVE

Site Ref: 14
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	8	0	8	0	12	0	14	0	9	0	10.2
00:15	1	16	0	7	0	15	0	12	0	10	0.2	12
00:30	0	14	0	6	0	12	1	9	0	5	0.2	9.2
00:45	0	10	0	7	0	11	0	8	0	9	0	9
01:00	0	7	0	5	1	9	0	12	0	8	0.2	8.2
01:15	0	13	0	9	0	11	0	10	0	13	0	11.2
01:30	0	12	0	12	0	12	0	10	0	9	0	11
01:45	0	10	0	5	0	12	0	8	1	8	0.2	8.6
02:00	0	8	0	8	0	6	0	9	0	9	0	8
02:15	0	2	0	9	0	6	1	13	0	6	0.2	7.2
02:30	0	8	1	11	1	10	1	16	1	9	0.8	10.8
02:45	0	16	0	5	0	6	0	11	0	12	0	10
03:00	0	9	0	8	0	16	0	12	0	20	0	13
03:15	0	16	0	15	0	6	0	13	0	15	0	13
03:30	0	8	0	12	0	16	0	13	0	11	0	12
03:45	0	15	0	13	0	16	0	13	0	18	0	15
04:00	0	15	0	14	0	12	0	14	0	23	0	15.6
04:15	0	9	0	12	0	13	0	22	0	16	0	14.4
04:30	0	7	0	13	0	10	0	8	0	12	0	10
04:45	0	8	1	15	0	9	0	7	0	12	0.2	10.2
05:00	0	11	0	7	0	12	1	9	1	12	0.4	10.2
05:15	0	12	0	9	0	7	0	16	0	19	0	12.6
05:30	0	13	0	19	1	16	1	11	0	10	0.4	13.8
05:45	1	8	1	15	0	9	0	11	1	12	0.6	11
06:00	0	8	0	16	0	7	0	10	0	12	0	10.6
06:15	0	4	1	8	1	8	0	8	0	14	0.4	8.4
06:30	1	4	2	6	1	5	1	7	1	5	1.2	5.4
06:45	5	9	1	8	4	1	3	7	4	8	3.4	6.6
07:00	5	9	2	8	3	9	2	7	2	14	2.8	9.4
07:15	1	3	2	4	4	7	3	8	3	8	2.6	6
07:30	6	4	7	6	5	1	6	1	2	7	5.2	3.8
07:45	9	2	7	3	10	3	5	6	5	4	7.2	3.6
08:00	9	4	12	3	11	3	8	4	17	6	11.4	4
08:15	8	4	10	2	8	2	10	0	8	5	8.8	2.6
08:30	9	1	8	0	9	2	2	1	8	3	7.2	1.4
08:45	7	2	9	3	4	2	5	1	9	1	6.8	1.8
09:00	8	2	14	4	8	1	6	4	7	6	8.6	3.4
09:15	11	2	8	0	9	2	8	3	7	1	8.6	1.6
09:30	9	1	4	1	4	0	5	2	6	2	5.6	1.2
09:45	8	1	11	0	3	3	11	0	4	2	7.4	1.2
10:00	13	0	7	0	11	0	8	2	12	3	10.2	1
10:15	7	0	4	0	9	1	14	0	10	2	8.8	0.6
10:30	11	0	4	2	9	1	8	1	4	0	7.2	0.8
10:45	8	0	13	1	11	2	14	0	16	1	12.4	0.8
11:00	6	0	9	0	7	1	7	0	9	1	7.6	0.4
11:15	3	0	7	0	5	0	11	2	6	0	6.4	0.4
11:30	10	0	7	0	13	1	8	0	9	1	9.4	0.4
11:45	7	0	13	0	9	0	13	0	14	0	11.2	0
Totals	163	315	165	319	161	326	163	355	167	393	164	342
Day Total	478		484		487		518		560		505	
AM Pct	34.1%		34.1%		33.1%		31.5%		29.8%		32.4%	
Peak Hour	11:45	15:15	8:15	17:15	11:30	15:30	11:45	15:30	8:00	15:45	11:30	15:30
Peak Volume	45	54	41	59	49	57	48	62	42	69	43	57
P.H.F	0.7031	0.8438	0.7321	0.7763	0.8167	0.8906	0.8571	0.7045	0.6176	0.7500	0.8917	0.9135
AECOM												
4:00-5:00 PM	21	39	18	54	22	44	16	51	12	63	18	50.2
4:15-5:15 PM	25	35	28	47	30	44	22	46	27	52	26.4	44.8
4:30-5:30 PM	32	38	36	44	34	38	29	40	32	55	32.6	43
4:45-5:45 PM	35	44	37	50	38	44	25	43	38	53	34.6	46.8
5:00-6:00 PM	33	44	39	50	32	44	25	47	42	53	34.2	47.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002115
Route: RAIMUNDO WAY
Location: W. of STANFORD AVE

Site Ref: 14
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	2	0	7	0	11	2	14	0	5	0.4	7.8
00:15	0	10	0	8	0	8	1	10	0	2	0.2	7.6
00:30	1	5	0	3	0	10	0	10	0	8	0.2	7.2
00:45	0	6	0	5	0	5	0	6	0	6	0	5.6
01:00	0	14	0	12	1	6	0	9	0	10	0.2	10.2
01:15	0	9	1	3	1	11	0	13	0	8	0.4	8.8
01:30	0	5	0	6	0	9	0	6	0	5	0	6.2
01:45	0	8	0	5	0	11	1	4	1	10	0.4	7.6
02:00	0	8	0	7	0	10	1	6	0	18	0.2	9.8
02:15	0	7	0	7	0	4	0	11	0	8	0	7.4
02:30	0	16	0	7	0	3	0	14	1	10	0.2	10
02:45	0	11	0	7	0	14	0	4	0	10	0	9.2
03:00	0	11	0	8	0	6	0	10	0	6	0	8.2
03:15	0	8	0	11	0	5	0	9	0	11	0	8.8
03:30	0	10	0	9	0	7	2	13	1	15	0.6	10.8
03:45	0	13	0	9	0	12	0	9	0	14	0	11.4
04:00	0	4	0	17	0	11	0	7	0	9	0	9.6
04:15	0	9	0	13	0	10	0	9	0	14	0	11
04:30	0	13	0	8	0	13	0	2	0	7	0	8.6
04:45	0	5	0	10	0	7	0	6	0	7	0	7
05:00	0	7	0	11	0	8	0	14	0	18	0	11.6
05:15	0	8	1	11	1	15	0	5	0	9	0.4	9.6
05:30	0	9	0	11	0	8	1	12	0	11	0.2	10.2
05:45	0	9	1	16	0	4	0	10	0	12	0.2	10.2
06:00	1	7	4	12	1	8	2	13	1	9	1.8	9.8
06:15	1	5	0	9	1	4	0	5	0	11	0.4	6.8
06:30	2	3	1	9	1	11	1	3	1	6	1.2	6.4
06:45	1	6	0	13	0	7	0	5	0	7	0.2	7.6
07:00	3	8	3	4	8	3	4	13	1	6	3.8	6.8
07:15	4	4	4	6	7	8	0	7	2	13	3.4	7.6
07:30	9	4	7	5	6	3	3	3	7	2	6.4	3.4
07:45	14	4	14	6	7	6	15	5	11	5	12.2	5.2
08:00	6	1	11	3	6	5	8	3	11	8	8.4	4
08:15	13	1	9	4	11	2	16	1	5	7	10.8	3
08:30	8	3	9	3	6	6	9	1	9	3	8.2	3.2
08:45	16	6	6	2	11	3	8	1	7	1	9.6	2.6
09:00	9	2	8	1	7	0	10	3	6	3	8	1.8
09:15	7	1	5	0	6	1	5	1	9	2	6.4	1
09:30	9	1	6	1	9	1	5	3	11	4	8	2
09:45	9	1	5	0	9	3	12	1	14	3	9.8	1.6
10:00	7	0	11	1	6	1	10	2	5	2	7.8	1.2
10:15	6	0	9	0	2	1	5	1	7	3	5.8	1
10:30	16	0	12	0	6	1	8	2	6	1	9.6	0.8
10:45	14	0	7	1	9	0	9	1	7	4	9.2	1.2
11:00	4	1	6	0	13	1	10	1	7	3	8	1.2
11:15	3	1	6	3	6	1	5	0	5	0	5	1
11:30	7	0	7	1	13	0	9	0	12	1	9.6	0.4
11:45	5	0	7	0	10	0	16	0	8	0	9.2	0
Totals	175	266	160	295	164	284	178	288	155	337	166	294
Day Total	441		455		448		466		492		460	
AM Pct	39.7%		35.2%		36.6%		38.2%		31.5%		36.1%	
Peak Hour	8:15	14:30	7:45	17:15	11:00	15:45	11:45	15:00	9:00	15:30	7:45	15:30
Peak Volume	46	46	43	50	42	46	50	41	40	52	40	43
P.H.F	0.7188	0.7188	0.7679	0.7813	0.8077	0.8846	0.7813	0.7885	0.7143	0.8667	0.8115	0.9386

AECOM

7:00-8:00 AM	30	31	28	48	28	41	22	24	21	37	26	36.2
7:15-8:15 AM	33	34	36	42	26	38	26	31	31	46	30.4	38.2
7:30-8:30 AM	42	33	41	40	30	43	42	27	34	41	37.8	36.8
7:45-8:45 AM	41	29	43	43	30	38	48	37	36	45	39.6	38.4
8:00-9:00 AM	43	33	35	49	34	35	41	41	32	50	37	41.6

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002116
Route: SANTA MARIA AVE
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 15
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	3	0	2	0	0	0	3	0	4	0	2.4
00:15	1	1	0	0	0	1	0	1	0	1	0.2	0.8
00:30	0	2	0	2	0	2	0	1	0	3	0	2
00:45	0	0	0	0	0	4	2	5	0	1	0.4	2
01:00	0	3	0	4	0	5	0	1	0	0	0	2.6
01:15	0	1	0	2	0	6	0	0	0	0	0	1.8
01:30	0	0	0	1	0	3	0	0	0	0	0	0.8
01:45	0	1	0	3	0	1	0	0	0	1	0	1.2
02:00	0	0	0	1	0	2	0	0	0	1	0	0.8
02:15	0	1	0	2	0	5	0	3	0	1	0	2.4
02:30	0	1	0	0	0	2	0	2	0	4	0	1.8
02:45	0	0	0	1	0	0	0	2	0	1	0	0.8
03:00	0	1	0	1	0	1	0	0	0	0	0	0.6
03:15	0	1	0	1	0	0	0	0	0	1	0	0.6
03:30	0	2	0	5	0	4	0	1	0	3	0	3
03:45	0	3	0	0	0	0	0	0	0	4	0	1.4
04:00	0	0	0	9	0	2	0	3	0	4	0	3.6
04:15	0	2	0	2	0	2	0	1	0	0	0	1.4
04:30	0	0	0	2	0	3	0	4	0	2	0	2.2
04:45	0	0	0	1	0	2	0	3	0	3	0	1.8
05:00	0	4	0	0	0	4	0	3	0	3	0	2.8
05:15	0	2	0	0	0	2	0	0	0	4	0	1.6
05:30	0	1	0	1	0	0	1	2	0	1	0.2	1
05:45	0	4	0	3	0	0	0	1	0	2	0	2
06:00	0	1	0	1	0	1	0	1	0	1	0	1
06:15	1	0	0	2	1	4	0	2	2	0	0.8	1.6
06:30	5	4	3	1	0	2	0	1	1	1	1.8	1.8
06:45	4	1	0	1	2	0	2	2	1	0	1.8	0.8
07:00	2	0	3	0	1	0	4	3	2	2	2.4	1
07:15	1	3	4	2	2	0	0	0	0	1	1.4	1.2
07:30	0	0	4	0	3	1	0	1	2	1	1.8	0.6
07:45	4	1	4	1	4	2	1	2	2	2	3	1.6
08:00	3	0	8	0	3	0	2	2	4	4	4	1.2
08:15	2	0	5	1	3	2	8	1	6	0	4.8	0.8
08:30	4	1	4	0	4	0	1	0	5	1	3.6	0.4
08:45	1	0	2	0	4	0	3	0	6	0	3.2	0
09:00	1	0	1	0	0	1	2	0	1	0	1	0.2
09:15	4	1	0	0	5	0	2	0	2	1	2.6	0.4
09:30	1	1	1	0	2	1	3	0	1	0	1.6	0.4
09:45	0	0	5	0	1	0	1	3	1	0	1.6	0.6
10:00	3	0	1	0	8	0	5	0	6	0	4.6	0
10:15	0	0	3	0	2	0	2	0	2	1	1.8	0.2
10:30	2	0	3	0	9	0	2	0	0	0	3.2	0
10:45	2	1	3	0	0	0	1	0	1	0	1.4	0.2
11:00	1	0	1	0	1	2	1	0	1	0	1	0.4
11:15	3	0	2	1	2	0	5	0	9	0	4.2	0.2
11:30	2	0	3	0	1	0	0	0	4	0	2	0
11:45	0	0	0	0	0	0	4	0	3	0	1.4	0
Totals	47	47	60	53	58	67	52	54	62	59	56	56
Day Total	94		113		125		106		121		112	
AM Pct	50.0%		53.1%		46.4%		49.1%		51.2%		49.9%	
Peak Hour	7:45	17:00	7:30	15:30	9:45	12:45	8:00	16:00	8:00	15:15	8:00	15:30
Peak Volume	13	11	21	16	20	18	14	11	21	12	16	9
P.H.F	0.8125	0.6875	0.6563	0.4444	0.5556	0.7500	0.4375	0.6875	0.8750	0.7500	0.8125	0.6528

AECOM

4:00-5:00 PM	7	2	15	14	10	9	5	11	6	9	9	9
4:15-5:15 PM	8	6	20	5	12	11	3	11	8	8	10.2	8.2
4:30-5:30 PM	9	6	21	3	13	11	11	10	14	12	13.6	8.4
4:45-5:45 PM	13	7	21	2	14	8	12	8	17	11	15.4	7.2
5:00-6:00 PM	10	11	19	4	14	6	14	6	21	10	15.6	7.4

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961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002117
Route: SANTA MARIA AVE
Location: N. of JUNIPERO SERRA BLVD

Site Ref: 15
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	3	0	4	0	3	0	5	0	3	0	3.6
00:15	0	1	0	0	0	2	0	0	0	0	0	0.6
00:30	0	0	0	2	0	0	0	2	0	3	0	1.4
00:45	0	3	0	2	0	3	0	1	0	2	0	2.2
01:00	0	0	0	3	0	2	0	1	0	1	0	1.4
01:15	0	0	0	2	0	3	0	4	0	3	0	2.4
01:30	0	0	0	1	0	1	0	1	0	2	0	1
01:45	0	0	0	0	0	2	0	0	0	1	0	0.6
02:00	0	5	0	0	0	2	0	3	0	2	0	2.4
02:15	0	0	0	4	0	3	0	4	0	3	0	2.8
02:30	0	2	0	0	0	1	0	3	0	2	0	1.6
02:45	0	3	0	3	0	4	0	1	0	4	0	3
03:00	0	2	0	2	0	3	0	2	0	2	0	2.2
03:15	0	0	0	0	0	3	0	1	0	3	0	1.4
03:30	0	1	0	4	0	1	0	3	0	1	0	2
03:45	0	0	0	5	0	2	0	3	0	3	0	2.6
04:00	0	5	0	0	0	4	0	1	0	0	0	2
04:15	0	1	0	1	0	1	0	1	0	0	0	0.8
04:30	0	0	0	4	0	4	0	2	0	1	0	2.2
04:45	0	0	0	0	0	2	0	0	0	3	0	1
05:00	0	3	0	2	0	1	0	2	0	0	0	1.6
05:15	0	1	0	0	1	3	0	1	1	1	0.4	1.2
05:30	1	4	0	1	0	0	0	0	0	1	0.2	1.2
05:45	0	0	0	1	0	4	3	0	0	1	0.6	1.2
06:00	0	1	0	1	0	0	0	0	0	1	0	0.6
06:15	0	1	0	0	0	3	0	1	0	1	0	1.2
06:30	0	1	0	4	0	0	0	2	0	0	0	1.4
06:45	1	0	0	1	1	0	0	0	0	0	0.4	0.2
07:00	2	0	1	3	1	0	3	4	1	2	1.6	1.8
07:15	2	0	1	2	0	0	1	0	1	2	1	0.8
07:30	0	2	0	1	1	0	0	1	0	1	0.2	1
07:45	1	1	2	1	0	1	1	0	1	2	1	1
08:00	0	1	0	0	1	1	1	2	1	1	0.6	1
08:15	0	0	0	1	2	1	1	0	1	0	0.8	0.4
08:30	0	1	6	0	0	1	1	0	0	0	1.4	0.4
08:45	2	1	1	0	0	0	0	1	0	0	0.6	0.4
09:00	3	2	2	0	0	0	0	1	2	1	1.4	0.8
09:15	0	0	2	0	1	1	1	0	1	0	1	0.2
09:30	4	0	0	0	0	0	1	0	3	0	1.6	0
09:45	1	0	3	0	2	0	2	0	2	0	2	0
10:00	0	0	0	0	3	0	2	0	1	0	1.2	0
10:15	0	0	3	0	1	0	2	0	0	1	1.2	0.2
10:30	0	0	3	0	2	0	0	0	4	0	1.8	0
10:45	1	0	2	0	3	0	2	0	2	0	2	0
11:00	1	0	5	0	1	0	1	0	2	0	2	0
11:15	2	0	1	0	0	0	3	0	3	0	1.8	0
11:30	4	0	1	0	3	0	1	0	3	0	2.4	0
11:45	2	0	2	0	1	0	1	0	1	0	1.4	0
Totals	27	45	35	55	24	62	27	53	30	54	29	54
Day Total	72		90		86		80		84		82	
AM Pct	37.5%		38.9%		27.9%		33.8%		35.7%		34.7%	
Peak Hour	11:15	14:00	10:15	15:00	10:00	14:15	11:15	14:00	10:30	14:00	11:15	14:00
Peak Volume	11	10	13	11	9	11	10	11	11	11	9	10
P.H.F	0.6875	0.5000	0.6500	0.5500	0.7500	0.6875	0.5000	0.6875	0.6875	0.6875	0.6389	0.8167

AECOM

7:00-8:00 AM	5	6	4	5	2	11	5	4	3	4	4	6
7:15-8:15 AM	3	4	3	7	2	8	3	5	3	4	2.8	5.6
7:30-8:30 AM	1	4	2	6	4	10	3	5	3	5	2.6	6
7:45-8:45 AM	1	8	8	3	3	6	4	3	3	5	3.8	5
8:00-9:00 AM	2	8	7	4	3	8	3	3	2	3	3.4	5.2

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002118
Route: CAMPUS DR EAST
Location: E. of JUNIPERO SERRA BLVD

Site Ref: 16
Direction: IN

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	20	0	18	0	23	0	23	1		0.2	21
00:15	0	22	0	19	1	22	4	17	0		1	20
00:30	0	22	0	22	0	25	1	1	0		0.2	17.5
00:45	0	21	1	18	0	25	0	17	4		1	20.25
01:00	0	13	0	15	3	18	1	21	1		1	16.75
01:15	0	20	0	15	0	15	0	18	0		0	17
01:30	0	10	0	15	1	17	0	23	0		0.2	16.25
01:45	0	17	0	19	0	21	0	25	0		0	20.5
02:00	0	13	0	22	0	17	0	23	0		0	18.75
02:15	0	14	0	16	0	10	0	19	1		0.2	14.75
02:30	0	11	1	23	0	16	0	11	0		0.2	15.25
02:45	0	13	0	25	1	31	0	14	0		0.2	20.75
03:00	0	12	0	22	0	18	0	16	0		0	17
03:15	0	19	0	11	0	9	0	26	0		0	16.25
03:30	0	14	0	16	0	10	0	26	0		0	16.5
03:45	0	23	0	21	0	16	0	25	0		0	21.25
04:00	0	10	1	20	0	26	0	14	0		0.2	17.5
04:15	0	20	0	19	0	20	1	32	0		0.2	22.75
04:30	0	23	2	11	1	20	1	19	1		1	18.25
04:45	0	13	2	18	0	26	0	22	0		0.4	19.75
05:00	0	14	1	10	1	12	0	23	0		0.4	14.75
05:15	0	16	2	31	2	25	4	19	3		2.2	22.75
05:30	0	28	4	30	6	26	5	27	3		3.6	27.75
05:45	0	18	9	18	6	22	12	22	12		7.8	20
06:00	0	10	5	25	8	21	7	19	4		4.8	18.75
06:15	0	18	6	12	7	24	6	18	6		5	18
06:30	0	15	12	22	16	11	9	17	8		9	16.25
06:45	0	14	11	15	7	15	11	20	6		7	16
07:00	0	22	10	11	12	14	13	11	15		10	14.5
07:15	0	18	16	19	17	10	15	14	10		11.6	15.25
07:30	0	17	17	13	17	9	22	14	17		14.6	13.25
07:45	0	11	33	11	28	9	25	14	28		22.8	11.25
08:00	0	7	15	3	25	7	18	6			14.5	5.75
08:15	0	7	22	11	28	9	34	8			21	8.75
08:30	0	12	25	9	33	11	25	6			20.75	9.5
08:45	0	6	33	14	25	9	25	9			20.75	9.5
09:00	0	7	18	8	16	8	13	14			11.75	9.25
09:15	0	7	23	8	22	8	18	5			15.75	7
09:30	0	6	30	3	15	3	10	4			13.75	4
09:45	0	4	27	3	15	7	28	7			17.5	5.25
10:00	0	6	24	4	20	6	20	5			16	5.25
10:15	0	9	8	4	12	7	19	6			9.75	6.5
10:30	0	4	21	4	21	4	23	0			16.25	3
10:45	0	1	15	2	14	3	14	5			10.75	2.75
11:00	3	1	26	3	22	3	19	3			17.5	2.5
11:15	20	5	20	3	24	3	22	1			21.5	3
11:30	11	0	21	1	20	4	13	2			16.25	1.75
11:45	23	0	18	0	9	1	23	2			18.25	0.75
Totals	57	613	479	662	455	676	461	693	120	0	367	661
Day Total	670		1141		1131		1154		120		1028	
AM Pct	8.5%		42.0%		40.2%		39.9%		100.0%		35.7%	
Peak Hour	11:45	12:00	8:45	17:15	7:45	12:00	7:45	15:30	7:00		7:45	17:15
Peak Volume	87	85	104	104	114	95	102	97	70		79	89
P.H.F	0.9457	0.9659	0.7879	0.8387	0.8636	0.9500	0.7500	0.7578	0.6250		0.8668	0.8041

AECOM

4:00-5:00 PM	0	66	76	68	74	92	75	87	70	0	59	78.25
4:15-5:15 PM	0	70	81	58	87	78	80	96	55	0	63.5	75.5
4:30-5:30 PM	0	66	87	70	98	83	99	83	45	0	72.9	75.5
4:45-5:45 PM	0	71	95	89	114	89	102	91	28	0	79.05	85
5:00-6:00 PM	0	76	95	89	111	85	102	91	0	0	77	85.25

Traffic Research & Analysis, Inc.
961 Washington Blvd., Suite 603
Roseville, CA 95678
(916) 772-0872

Client: AECOM
File Number: 2002119
Route: CAMPUS DR EAST
Location: E. of JUNIPERO SERRA BLVD

Site Ref: 16
Direction: OUT

Count Date	10/5/2020		10/6/2020		10/7/2020		10/8/2020		10/9/2020		Average	
Count Time	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
00:00	0	27	0	15	1	23	4	18	1		1.2	20.75
00:15	0	19	1	22	2	25	0	27	1		0.8	23.25
00:30	0	21	2	20	0	21	1	2	1		0.8	16
00:45	0	23	0	15	0	21	0	17	0		0	19
01:00	0	6	0	21	1	9	1	15	0		0.4	12.75
01:15	0	19	0	19	1	21	1	22	0		0.4	20.25
01:30	0	20	0	11	2	26	0	20	0		0.4	19.25
01:45	0	25	3	20	0	22	0	17	0		0.6	21
02:00	0	17	0	25	4	25	2	29	1		1.4	24
02:15	0	26	0	23	0	30	1	30	0		0.2	27.25
02:30	0	30	0	24	0	28	0	27	0		0	27.25
02:45	0	15	0	30	0	27	0	18	0		0	22.5
03:00	0	17	1	24	0	27	0	23	0		0.2	22.75
03:15	0	29	0	31	0	27	2	33	0		0.4	30
03:30	0	17	0	33	0	36	0	39	1		0.2	31.25
03:45	0	27	1	22	0	30	0	21	0		0.2	25
04:00	0	36	1	32	0	38	0	30	0		0.2	34
04:15	0	18	0	29	1	32	0	31	2		0.6	27.5
04:30	0	31	0	37	1	31	0	43	0		0.2	35.5
04:45	0	31	1	33	0	35	0	36	1		0.4	33.75
05:00	0	23	1	40	0	33	2	31	0		0.6	31.75
05:15	0	36	1	35	2	45	0	26	0		0.6	35.5
05:30	0	32	2	23	0	37	1	27	1		0.8	29.75
05:45	0	20	1	32	1	25	3	25	4		1.8	25.5
06:00	0	23	2	31	0	30	4	24	3		1.8	27
06:15	0	15	3	21	4	16	3	17	2		2.4	17.25
06:30	0	14	8	22	4	16	3	29	1		3.2	20.25
06:45	0	15	10	19	8	15	13	26	8		7.8	18.75
07:00	0	13	8	13	6	13	6	17	6		5.2	14
07:15	0	13	11	14	10	13	8	16	8		7.4	14
07:30	0	11	7	7	10	16	14	20	4		7	13.5
07:45	0	4	12	14	6	12	9	16	7		6.8	11.5
08:00	0	13	17	10	14	15	13	18			11	14
08:15	0	6	5	7	11	8	14	12			7.5	8.25
08:30	0	5	13	12	12	7	9	17			8.5	10.25
08:45	0	7	21	8	16	5	9	13			11.5	8.25
09:00	0	5	11	3	10	7	10	6			7.75	5.25
09:15	0	6	15	5	12	6	27	3			13.5	5
09:30	0	1	20	6	17	1	16	1			13.25	2.25
09:45	0	3	18	3	13	6	19	8			12.5	5
10:00	0	2	15	11	12	3	22	5			12.25	5.25
10:15	0	8	20	5	16	4	17	2			13.25	4.75
10:30	0	4	16	3	11	2	30	1			14.25	2.5
10:45	0	3	10	2	22	2	16	5			12	3
11:00	2	2	20	2	22	5	12	3			14	3
11:15	20	0	12	0	23	4	12	3			16.75	1.75
11:30	26	1	16	3	27	0	15	1			21	1.25
11:45	21	1	24	0	14	0	17	0			19	0.25
Totals	69	740	329	837	316	880	336	870	52	0	262	832
Day Total	809		1166		1196		1206		52		1094	
AM Pct	8.5%		28.2%		26.4%		27.9%		100.0%		24.0%	
Peak Hour	11:15	16:45	11:45	16:30	10:45	16:45	9:45	16:15	6:45		11:30	16:30
Peak Volume	94	122	81	145	94	150	88	141	26		84	137
P.H.F	0.8704	0.8472	0.8438	0.9063	0.8704	0.8333	0.7333	0.8198	0.8125		0.9032	0.9613
AECOM												
4:00-5:00 PM	0	116	38	131	32	136	37	140	25	0	26	130.75
4:15-5:15 PM	0	103	47	139	40	131	44	141	19	0	32.2	128.5
4:30-5:30 PM	0	121	41	145	41	144	50	136	11	0	32.3	136.5
4:45-5:45 PM	0	122	47	131	43	150	45	120	7	0	33.8	130.75
5:00-6:00 PM	0	111	56	130	53	140	45	109	0	0	38.5	122.5

Appendix B

Detailed Daily Parking Lot Counts

NOT COLLECTED IN 2020

Appendix C

Peak-Hour Cordon Traffic Counts

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	9/28/2020	Monday	FROM: 7:30 AM	Cloudy
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	259		314		102		130		186				201		70	
7:15 AM	8:15 AM	272		319		105		131		206				203		73	
7:30 AM	8:30 AM	275		317		116		142		200				203		90	
7:45 AM	8:45 AM	275		291		104		130		181				204		96	
8:00 AM	9:00 AM	277		279		95		129		177				204		97	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	25		6		9		24		142		22		13		77		1580
7:15 AM	8:15 AM	28		7		9		21		158		33		15		74		1654
7:30 AM	8:30 AM	33		8		11		17		178		45		16		90		1741
7:45 AM	8:45 AM	29		8		10		10		181		47		13		109		1688
8:00 AM	9:00 AM	28		10		10		8		181		46		10		104		1655

TOTAL PEAK HOUR TRAFFIC: 1741

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	9/29/2020	Tuesday	FROM: 7:45 AM	Cloudy
TO: 9:00 AM			TO: 8:45 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	300		304		0		149		201				203		88	
7:15 AM	8:15 AM	290		314		0		160		208				246		103	
7:30 AM	8:30 AM	310		296		0		158		206				232		115	
7:45 AM	8:45 AM	310		292		30		140		193				236		119	
8:00 AM	9:00 AM	311		261		57		137		186				223		117	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	15		7		7		24		162		22		8		58		1548
7:15 AM	8:15 AM	17		8		6		26		175		31		6		68		1658
7:30 AM	8:30 AM	22		12		9		18		204		36		6		80		1704
7:45 AM	8:45 AM	27		13		9		10		190		38		8		95		1710
8:00 AM	9:00 AM	32		13		9		9		178		40		11		98		1682

TOTAL PEAK HOUR TRAFFIC: 1710

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 3 No data, replaced with wk 2

Site 3. Welch Rd: Hit by sweepers on 9/29 and 10/6

Site 4, Quarry Rd: Sweeper hits on Quarry Rd / Out on 9/29 & 10/6

Sites 7 and 8: Some "in" counts were bikes

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	9/30/2020	Wednesday	FROM: 7:30 AM	Smoke
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	282		275		0		139		194				219		82	
7:15 AM	8:15 AM	301		281		0		140		196				235		87	
7:30 AM	8:30 AM	312		283		0		149		217				248		93	
7:45 AM	8:45 AM	313		276		0		138		211				235		94	
8:00 AM	9:00 AM	300		269		4		135		204				240		97	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	18		8		10		25		162		38		13		73		1538
7:15 AM	8:15 AM	19		6		11		25		181		45		10		81		1618
7:30 AM	8:30 AM	18		8		12		19		198		48		10		93		1708
7:45 AM	8:45 AM	18		11		12		11		195		43		10		100		1667
8:00 AM	9:00 AM	28		14		8		6		175		35		10		104		1629

TOTAL PEAK HOUR TRAFFIC: 1708

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/1/2020	Thursday	FROM: 7:30 AM	Smoke
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	323		294		108		153		208				209		79	
7:15 AM	8:15 AM	309		290		118		149		211				209		85	
7:30 AM	8:30 AM	309		288		110		134		210				220		94	
7:45 AM	8:45 AM	283		273		111		142		211				223		106	
8:00 AM	9:00 AM	272		266		107		144		197				198		108	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	23		7		10		27		178		25		7		79		1730
7:15 AM	8:15 AM	23		6		11		24		184		31		11		84		1745
7:30 AM	8:30 AM	25		9		12		13		193		48		14		92		1771
7:45 AM	8:45 AM	24		13		13		14		183		45		17		93		1751
8:00 AM	9:00 AM	29		11		11		10		160		44		18		85		1660

TOTAL PEAK HOUR TRAFFIC: 1771

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/2/2020	Friday	FROM: 7:30 AM	Smoke
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	285		285		101		173		184				176		62	
7:15 AM	8:15 AM	304		263		102		174		182				167		71	
7:30 AM	8:30 AM	318		260		90		159		177				167		84	
7:45 AM	8:45 AM	314		254		85		144		171				178		97	
8:00 AM	9:00 AM	312		244		91		133		173				174		105	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	22		6		10		22		154		18		15		89		1602
7:15 AM	8:15 AM	23		10		14		21		170		27		18		95		1641
7:30 AM	8:30 AM	25		13		15		16		171		41		20		88		1644
7:45 AM	8:45 AM	27		16		14		13		164		45		22		89		1633
8:00 AM	9:00 AM	26		19		14		8		156		42		18		82		1597

TOTAL PEAK HOUR TRAFFIC: 1644

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	9/28/2020	Monday	FROM: 4:30 PM	Cloudy
TO: 6:00 PM			TO: 5:30 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		338		251		99		100		142		11		235		156
4:15 PM	5:15 PM		319		268		101		107		146		12		236		158
4:30 PM	5:30 PM		362		295		107		120		153		9		235		142
4:45 PM	5:45 PM		338		285		107		127		152		8		248		146
5:00 PM	6:00 PM		331		289		110		127		144		7		238		131

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		29		21		15		11		189		34		5		88	1724
4:15 PM	5:15 PM		34		22		16		11		209		39		4		89	1771
4:30 PM	5:30 PM		34		21		15		12		219		36		3		97	1860
4:45 PM	5:45 PM		39		19		15		8		207		32		4		104	1839
5:00 PM	6:00 PM		39		16		15		8		192		35		3		103	1788

TOTAL PEAK HOUR TRAFFIC: 1860

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	9/29/2020	Tuesday	FROM: 4:45 PM	Partly Cloudy
TO: 6:00 PM			TO: 5:45 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		412		280		30		118		153		5		272		153
4:15 PM	5:15 PM		410		290		28		126		159		3		271		165
4:30 PM	5:30 PM		424		309		25		139		163		7		251		168
4:45 PM	5:45 PM		442		335		23		145		168		6		246		157
5:00 PM	6:00 PM		425		317		24		145		163		8		236		153

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		47		25		14		11		208		50		7		113	1898
4:15 PM	5:15 PM		46		27		12		19		220		44		8		118	1946
4:30 PM	5:30 PM		47		29		11		19		229		42		9		124	1996
4:45 PM	5:45 PM		51		26		12		16		241		47		7		116	2038
5:00 PM	6:00 PM		45		34		16		14		217		46		10		99	1952

TOTAL PEAK HOUR TRAFFIC: 2038

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 3. Welch Rd: Hit by sweepers on 9/29 and 10/6

Site 4, Quarry Rd: Sweeper hits on Quarry Rd / Out on 9/29 & 10/6

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	9/30/2020	Wednesday	FROM: 4:45 PM	Smoke
TO: 6:00 PM			TO: 5:45 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		364		268		104		108		150		6		278		168
4:15 PM	5:15 PM		376		278		102		110		146		6		272		170
4:30 PM	5:30 PM		390		290		104		112		145		6		239		173
4:45 PM	5:45 PM		411		298		107		113		151		4		247		183
5:00 PM	6:00 PM		393		306		118		110		160		3		218		197

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		49		20		11		23		185		34		15		110	1893
4:15 PM	5:15 PM		51		21		10		18		204		30		12		118	1924
4:30 PM	5:30 PM		41		22		11		18		208		26		8		126	1919
4:45 PM	5:45 PM		40		28		13		11		207		28		5		121	1967
5:00 PM	6:00 PM		42		30		14		13		198		37		4		116	1959

TOTAL PEAK HOUR TRAFFIC: 1967

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	10/1/2020	Thursday	FROM: 4:30 PM	Smoke
TO: 6:00 PM			TO: 5:30 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		378		245		108		115		149		4		251		165
4:15 PM	5:15 PM		371		261		114		110		158		5		264		174
4:30 PM	5:30 PM		387		305		122		117		165		4		250		192
4:45 PM	5:45 PM		355		296		119		117		154		6		238		173
5:00 PM	6:00 PM		366		302		119		110		153		7		226		166

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		47		24		7		20		176		45		5		121	1860
4:15 PM	5:15 PM		45		22		9		26		184		47		7		130	1927
4:30 PM	5:30 PM		47		30		16		24		194		35		7		129	2024
4:45 PM	5:45 PM		48		27		16		18		196		37		8		123	1931
5:00 PM	6:00 PM		43		30		16		15		190		42		7		121	1913

TOTAL PEAK HOUR TRAFFIC: 2024

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

site 13, Bowdoin, Possible bikes on "out" counts

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	10/2/2020	Friday	FROM: 4:15 PM	Smoke
TO: 6:00 PM			TO: 5:15 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		465		254		108		114		144		5		241		191
4:15 PM	5:15 PM		432		246		105		124		157		6		245		217
4:30 PM	5:30 PM		436		258		106		128		156		3		238		202
4:45 PM	5:45 PM		416		258		107		127		160		2		225		209
5:00 PM	6:00 PM		398		272		105		117		157		4		210		215

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		48		31		11		16		177		33		7			1845
4:15 PM	5:15 PM		45		34		14		15		190		31		7			1868
4:30 PM	5:30 PM		40		35		13		13		190		32		6			1856
4:45 PM	5:45 PM		44		34		14		5		166		34		4			1805
5:00 PM	6:00 PM		50		29		15		6		158		30		5			1771

TOTAL PEAK HOUR TRAFFIC: 1868

Notes:

Site 1: too low, replaced with week 2. Field note "Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected."

Site 16 no data both weeks, no change made (Machine issue Friday 10/2 through weekend; resolved Monday)

Sites 7 and 8: Some "in" counts were bikes

site 13, Bowdoin, Possible bikes on "out" counts

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/5/2020	Monday	FROM: 7:45 AM	Fog
TO: 9:00 AM			TO: 8:45 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	312		283		121		144		188				202		82	
7:15 AM	8:15 AM	318		272		128		149		196				212		85	
7:30 AM	8:30 AM	316		253		122		152		188				203		102	
7:45 AM	8:45 AM	297		248		123		156		196				186		110	
8:00 AM	9:00 AM	291		234		102		146		189				179		93	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	16		4		11		18		152		30		7		77		1647
7:15 AM	8:15 AM	19		5		13		18		185		33		8		74		1715
7:30 AM	8:30 AM	28		7		13		15		192		42		9		90		1732
7:45 AM	8:45 AM	32		6		15		9		193		41		13		109		1734
8:00 AM	9:00 AM	36		7		13		7		167		43		10		104		1621

TOTAL PEAK HOUR TRAFFIC: 1734

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

Site 16 no data, replaced with week 1 (Machine issue Friday 10/2 through weekend; resolved Monday)

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/6/2020	Tuesday	FROM: 7:30 AM	Cloudy
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	296		328		0		118		192				202		78	
7:15 AM	8:15 AM	324		321		0		136		203				221		84	
7:30 AM	8:30 AM	322		316		0		138		207				239		103	
7:45 AM	8:45 AM	315		285		30		144		205				247		107	
8:00 AM	9:00 AM	302		274		57		170		196				235		105	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	15		4		11		27		175		28		15		76		1565
7:15 AM	8:15 AM	19		6		13		27		195		36		20		81		1686
7:30 AM	8:30 AM	28		10		14		22		215		41		21		87		1763
7:45 AM	8:45 AM	25		9		10		21		203		43		21		95		1760
8:00 AM	9:00 AM	30		10		9		15		175		35		19		95		1727

TOTAL PEAK HOUR TRAFFIC: 1763

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 3 limited data, but no data for week 1; so week 2 (this datasheet) used.

Site 3. Welch Rd: Hit by sweepers on 9/29 and 10/6

Site 4, Quarry Rd: Sweeper hits on Quarry Rd / Out on 9/29 & 10/6

Sites 7 and 8: Some "in" counts were bikes

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/7/2020	Wednesday	FROM: 8:00 AM	Haze
TO: 9:00 AM			TO: 9:00 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	287		287		134		150		179				199		70	
7:15 AM	8:15 AM	312		304		131		165		188				207		92	
7:30 AM	8:30 AM	306		307		130		152		195				202		106	
7:45 AM	8:45 AM	325		283		135		157		194				196		120	
8:00 AM	9:00 AM	312		275		125		169		197				221		128	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	19		4		9		20		158		28		10		74		1628
7:15 AM	8:15 AM	19		6		13		18		183		26		12		87		1763
7:30 AM	8:30 AM	21		8		13		14		207		30		13		98		1802
7:45 AM	8:45 AM	24		9		12		9		202		30		14		114		1824
8:00 AM	9:00 AM	32		6		15		9		196		34		14		111		1844

TOTAL PEAK HOUR TRAFFIC: 1844

Notes:

Field note: Construction at Sandhill/Stockfarm on 10/7 – 10/9. Detour at Stockfarm & Oak. No WB to Sandhill, but some drivers disregarded – maybe same people as exiting the Golf practice range.

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/8/2020	Thursday	FROM: 7:30 AM	Cloudy
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	313		284		124		139		187				219		75	
7:15 AM	8:15 AM	336		281		117		134		193				237		86	
7:30 AM	8:30 AM	335		285		117		145		202				240		110	
7:45 AM	8:45 AM	310		282		123		150		196				232		110	
8:00 AM	9:00 AM	280		261		115		155		183				208		104	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	21		6		15		23		171		22		5		75		1679
7:15 AM	8:15 AM	24		6		17		23		189		26		3		80		1752
7:30 AM	8:30 AM	25		9		16		18		210		42		11		99		1864
7:45 AM	8:45 AM	28		11		12		14		194		48		12		102		1824
8:00 AM	9:00 AM	20		7		10		12		177		41		14		102		1689

TOTAL PEAK HOUR TRAFFIC: 1864

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some "in" counts were bikes

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>AM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 7:00 AM	10/9/2020	Friday	FROM: 7:30 AM	Cloudy
TO: 9:00 AM			TO: 8:30 AM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6*		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
7:00 AM	8:00 AM	298		270		125		146		164				188		61	
7:15 AM	8:15 AM	326		282		145		143		173				196		79	
7:30 AM	8:30 AM	309		294		142		136		176				198		104	
7:45 AM	8:45 AM	342		296		128		127		183				185		112	
8:00 AM	9:00 AM	313		278		117		115		186				194		116	

* One way roadway (outbound only)

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN
7:00 AM	8:00 AM	19		5		8		24		135		21		6		70		1540
7:15 AM	8:15 AM	15		9		9		19		160		31		8		55		1650
7:30 AM	8:30 AM	18		8		11		17		184		34		14		45		1690
7:45 AM	8:45 AM	22		14		11		11		170		36		17		28		1682
8:00 AM	9:00 AM	23		14		10		9		160		32		21				1588

TOTAL PEAK HOUR TRAFFIC: 1690

Notes:

Construction at Sandhill/Stockfarm on 10/7 – 10/9. Detour at Stockfarm & Oak. No WB to Sandhill, but some drivers disregarded – maybe same people as exiting the Golf practice range.

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some “in” counts were bikes

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	10/5/2020	Monday	FROM: 4:45 PM	Cloudy
TO: 6:00 PM			TO: 5:45 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		371		258		98		117		124		4		243		171
4:15 PM	5:15 PM		345		274		103		122		129		3		226		167
4:30 PM	5:30 PM		369		297		113		116		148		3		228		172
4:45 PM	5:45 PM		378		318		127		110		156		2		240		167
5:00 PM	6:00 PM		388		314		135		110		158		2		233		166

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		32		17		15		22		176		39		6		116	1809
4:15 PM	5:15 PM		37		23		11		24		194		35		4		103	1800
4:30 PM	5:30 PM		32		25		14		16		200		38		4		121	1896
4:45 PM	5:45 PM		34		33		18		12		195		44		8		122	1964
5:00 PM	6:00 PM		37		29		13		12		191		44		8		111	1951

TOTAL PEAK HOUR TRAFFIC: 1964

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 3. Welch Rd: Hit by sweepers on 9/29 and 10/6

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

PM COUNT TIME
FROM: 4:00 PM
TO: 6:00 PM

DATE COUNTED
 10/6/2020

DAY OF THE WEEK
 Tuesday

PEAK HOUR
FROM: 4:00 PM
TO: 5:00 PM

WEATHER
 Mostly Cloudy

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		534		291		162		112		176		8		295		168
4:15 PM	5:15 PM		485		290		144		106		170		10		286		179
4:30 PM	5:30 PM		472		319		148		104		177		8		265		166
4:45 PM	5:45 PM		463		341		166		122		182		7		256		166
5:00 PM	6:00 PM		449		337		168		127		167		8		237		165

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		48		17		14		18		190		54		5		131	2223
4:15 PM	5:15 PM		45		17		16		16		198		47		7		139	2155
4:30 PM	5:30 PM		45		17		21		15		214		44		6		145	2166
4:45 PM	5:45 PM		41		19		18		12		206		50		3		131	2183
5:00 PM	6:00 PM		37		27		20		11		199		50		4		130	2136

TOTAL PEAK HOUR TRAFFIC: 2223

Notes:

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 4, Quarry Rd: Sweeper hits on Quarry Rd / Out on 9/29 & 10/6

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	10/7/2020	Wednesday	FROM: 4:15 PM	Smoke
TO: 6:00 PM			TO: 5:15 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		540		268		176		145		199		11		269		174
4:15 PM	5:15 PM		545		278		168		150		202		13		290		195
4:30 PM	5:30 PM		541		290		153		138		206		6		270		198
4:45 PM	5:45 PM		521		298		137		127		192		6		262		181
5:00 PM	6:00 PM		470		306		129		121		193		7		253		180

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		47		11		12		23		228		44		11		136	2294
4:15 PM	5:15 PM		43		17		13		28		244		44		8		131	2369
4:30 PM	5:30 PM		37		19		13		22		235		38		10		144	2320
4:45 PM	5:45 PM		37		23		15		21		221		44		6		150	2241
5:00 PM	6:00 PM		32		31		13		22		199		44		8		140	2148

TOTAL PEAK HOUR TRAFFIC: 2369

Notes:

Construction at Sandhill/Stockfarm on 10/7 – 10/9. Detour at Stockfarm & Oak. No WB to Sandhill, but some drivers disregarded – maybe same pec

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 2 high, replaced with week 1

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

<u>PM COUNT TIME</u>	<u>DATE COUNTED</u>	<u>DAY OF THE WEEK</u>	<u>PEAK HOUR</u>	<u>WEATHER</u>
FROM: 4:00 PM	10/8/2020	Thursday	FROM: 4:15 PM	Cloudy
TO: 6:00 PM			TO: 5:15 PM	

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		378		245		201		112		187		7		256		182
4:15 PM	5:15 PM		371		261		203		113		188		8		278		180
4:30 PM	5:30 PM		387		305		196		109		183		9		262		155
4:45 PM	5:45 PM		355		296		221		108		184		7		251		152
5:00 PM	6:00 PM		366		302		210		114		185		7		238		144

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		44		15		15		30		219		51		4		140	2086
4:15 PM	5:15 PM		46		18		17		27		226		46		5		141	2128
4:30 PM	5:30 PM		44		17		22		23		216		40		5		136	2109
4:45 PM	5:45 PM		44		21		20		15		216		43		3		120	2056
5:00 PM	6:00 PM		46		27		18		12		199		47		3		109	2027

TOTAL PEAK HOUR TRAFFIC: 2128

Notes:

Field note, Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Site 1 too high and site 2 too low, replaced with week 1

Sites 7 and 8: Some "in" counts were bikes

Site 13 possible bikes on "out" counts

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

STANFORD UNIVERSITY TRAFFIC COUNTS

PM COUNT TIME

FROM: 4:00 PM
TO: 6:00 PM

DATE COUNTED

10/9/2020

DAY OF THE WEEK

Friday

PEAK HOUR

FROM: 4:15 PM
TO: 5:15 PM

WEATHER

Mostly Cloudy

TIME		COUNT LOCATION															
		1		2		3		4		5		6		7		8	
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
4:00 PM	5:00 PM		465		174		172		144		187		10		269		193
4:15 PM	5:15 PM		432		231		157		136		188		7		288		198
4:30 PM	5:30 PM		436		245		127		131		188		7		277		192
4:45 PM	5:45 PM		416		243		121		127		183		5		271		201
5:00 PM	6:00 PM		398		244		131		118		182		6		275		214

TIME		COUNT LOCATION																TOTAL
		9		10		11		12		13		14		15		16		
FROM:	TO:	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	OUT
4:00 PM	5:00 PM		44		33		12		17		196		63		4		0	1983
4:15 PM	5:15 PM		48		30		8		21		204		52		4		0	2004
4:30 PM	5:30 PM		48		28		10		22		206		55		5		0	1977
4:45 PM	5:45 PM		56		32		9		12		214		53		5		0	1948
5:00 PM	6:00 PM		67		33		14		11		210		53		3		0	1959

TOTAL PEAK HOUR TRAFFIC: 2004

Notes:

Construction at Sandhill/Stockfarm on 10/7 – 10/9. Detour at Stockfarm & Oak. No WB to Sandhill, but some drivers disregarded – maybe same per

Site 1: Cars exiting the Golf practice range were a bit lax about lane integrity so you may see some higher numbers than expected.

Sites 7 and 8: Some “in” counts were bikes

Site 13 possible bikes on “out” counts

Site 15, Santa Maria, Fresh asphalt overlay & landscaper blocking tubes with equipment part of week 2

Site 16 no data either week, no change made

Appendix D

Peak-Hour Parking Lot Driveway Counts

NOT COLLECTED IN 2020

Appendix E

Cut-Through Traffic Data

NOT COLLECTED IN 2020

Appendix F

COVID-19 Adaptations Correspondence

ⁱ <https://abc7news.com/san-francisco-bay-area-traffic-sf-report-current/6417391/>
Last accessed on 2/10/2021

From:
Lilia C. Scott

Date:
February 3, 2021, revised March 23, 2021

To:
Charu Ahluwalia, County of Santa Clara
Manira Sandhir, County of Santa Clara
David Rader, County of Santa Clara

Memorandum

Subject: Changes to Methodology for 2020 Traffic Counts (required per 2000 Stanford General Use Permit) due to COVID-19

Overview

As required by the conditions of approval for the 2000 General Use Permit (GUP) for Stanford University, the County of Santa Clara (County) has engaged AECOM Technical Services to monitor the traffic flow in and out of the campus perimeter, defined by a designated cordon, on the Stanford Campus. AECOM collects these data on an annual basis, in the spring and fall of each year. The specific citation for the count interval required is found in GUP Condition G.7.a., which states:

G.7. Traffic counts and determination of traffic volume shall occur as described below. Detailed methodology is contained in the Mitigation Monitoring and Reporting Program.
a. Peak hour traffic for a single year shall be determined through counts taken at three times during the year. All counts shall be conducted during the regular academic year, which does not include academic breaks or end-of-quarter finals. Specific times for each count shall be determined by the County Planning Office. The three annual counts shall be averaged to determine the annual traffic level for the baseline and each monitoring year.

The established methodology for the monitoring program has been for the data to be collected for 6 weeks in the spring and 2 weeks in the fall, for a total of 8 weeks of traffic data each calendar year from 2003 onwards. When data collection first began in 2001, 7 weeks of data were initially collected: 6 weeks in the spring (April 2, 2001, through May 14, 2001) and 2 days in the fall (October 24 and 29, 2001). Starting in the year 2003 and continuing through 2019, AECOM collected a clear content of 8 weeks of data every year with the exception of three years that had slightly unusual handling of the date intervals.

In 2003, the fall counts were collected during two nonconsecutive weeks due to scheduling requirements of the subconsultant. In 2012, although counts were collected on the second week of the fall counts (Week 8, the week of October 29, 2012), the data were not used due to irregular traffic volumes caused by the construction on Junipero Serra Boulevard. In 2013, October 10, the final day of the data collection, was also dropped for a similar rationale. Table 1 displays a complete list of the count date intervals.

Table 1 – Historic Traffic Count Dates

Year	Spring Dates	Fall Dates
2001	April 2 through May 14, 2001	October 24 and 29, 2001 (2 days)
2002	April 15 through May 24, 2002	October 14 through 25, 2002
2003	April 7 through May 23, 2003	September 29 through October 3, and October 20 through 24, 2003
2004	April 12 through May 23, 2004	September 27 through October 8, 2004
2005	April 4 through May 6, 2005	September 26 through October 7, 2005
2006	April 17 through May 26, 2006	October 16 through 27, 2006
2007	April 9 through May 18, 2007	October 15 through 26, 2007
2008	April 7 through May 16, 2008	October 13 through 24, 2008
2009	April 13 through May 22, 2009	October 5 through 16, 2009
2010	April 5 through May 21, 2010	October 25 through November 5, 2010
2011	April 18 through May 27, 2011	October 24 through November 4, 2011
2012	April 9 through May 18, 2012	October 22 through November 2, 2012 (the week of October 29 was not issued)
2013	April 8 through May 17, 2013	October 21 through November 1, 2013
2014	April 7 through May 16, 2014	September 29 through October 10, 2014 (October 10 data not issued)
2015	April 13 through May 22, 2015	September 21 through October 2, 2015
2016	April 4 through May 13, 2016	October 17 through 28, 2016
2017	April 10 through May 19, 2017	October 2 through 13, 2017
2018	April 9 through May 18, 2018	October 1 through 12, 2018
2019	April 8 through May 17, 2019	October 14 through 25, 2019

2020 Traffic Counts

Before the 2020 COVID-19 shelter-in-place (SIP) order began on March 19, the project was planned to proceed as usual. The spring counts were scheduled for April 6 through May 18, 2020, and the fall counts were set for 2 weeks (exact dates to be determined). Stanford provided two memos on adapting the Monitoring Program to COVID conditions (dated June 30, 2020 and September 4, 2020), and both are included with this appendix. As explained in Stanford's June 30, 2020 memo from Lesley Lowe and Brian Shaw titled "2000 GUP Traffic Monitoring: Fall 2020 Monitoring" and included in this appendix, the campus was closed to all students due to the SIP order. The University canceled in-person classes starting on March 9, 2020, for the final 2 weeks of the winter quarter. It then made the decision to vacate student housing in mid-March after a student tested positive for the virus. The University moved spring courses to be taught online for the entire quarter, and the start of spring quarter was delayed 1 week from March 30 to April 6 in all schools except the Graduate School of Business, School of Law, and School of Medicine. All students who had been living on campus, both undergraduate and graduate, were required to move out of their campus housing by the end of March. These decisions are consistent with the SIP directive from the Governor of the State of California and the County Public Health Department.

Due to the highly unusual situation this year, the Stanford traffic monitoring project was not conducted at all in the spring of 2020. Initially, it was thought that the SIP order would be short-lived. Unfortunately, the COVID-19 virus has persisted, SIP has remained in effect, and consequently Stanford has continued to restrict campus activity. In an attempt to strike a balance between the unknown nature of the campus closure and the requirement to collect traffic volumes, the 2-week fall counts were conducted. However, the program did not collect the data needed to apply the usual adjustments to the raw counts. The County projected that due to remote schooling and work, the number of automobile trips would be suppressed. Hence, the County determined raw counts, without the usual adjustments, to be acceptable for meeting the

GUP conditions to demonstrate traffic volumes did not exceed the baseline established in 2001. Given the highly unusual context presented in 2020 and the unknown conditions for 2021, the County determined that these 2 weeks of raw traffic data would be sufficient to serve as an indication of the traffic activity on campus.

Campus Closure

In 2020, COVID-19 greatly altered Stanford University and Stanford Hospital operations. These changes to normal activities included a full shut-down of the university in the early SIP phases. Additionally, hospital operations emphasized addressing COVID-19 needs while also continuing to provide other critical services under challenging and ever-changing conditions.

2020 Fall Quarter Plans (September-November)

On August 13, 2020, the Stanford University president announced that in-person classes would be canceled for the fall of 2020 (with some exceptions) due to COVID-19 conditions (Figure 1). Stanford provided this information for the Traffic Monitoring Program in the attached memo dated June 30, 2020. Therefore, no undergraduates were on campus (except those who received hardship waivers), and all classes were held online. Graduate and post-doctorate students continued research on campus; as with the undergraduates, their instruction was conducted online. Faculty were permitted to make their own decision about where they would work. Many graduate students continued to live in campus housing because graduate housing is apartment-style, as opposed to the dormitory-style housing for undergraduates. No events, including sporting events, took place. However, the shuttle network continued to serve the campus, with adjustments to emphasize connections between the hospital and the revised Caltrain schedule.

Figure 1 – Stanford Campus under SIP 2020



Events on campus, visitor tours, museums, performing arts, conferences, and athletics were suspended. Nonessential staff continued to work remotely.

Campus Zones

The Public Health guidance from the State of California that was applicable at the time the fall counts were collected became effective on September 1, 2020. In response, the university created a temporary campus zones program (Figures 2 through 5). This zonal program was intended to balance the need for a safer and healthier academic environment while also preserving opportunities for the public to use the campus. State guidance instructed all institutions of higher education to "limit, to the greatest extent permitted by law, external community members from entering the campus grounds and using campus

resources, to reduce contact spreading.” It also prohibited most indoor classes and the use of indoor common areas at Stanford while Santa Clara County was on the state’s watch list.

Figure 2 – Stanford Campus Zones



Figure 3 – Campus Zone



Figure 4 – Community Zone



Figure 5 – Athletics Zone



The most restrictive zone is the core of the campus; it is designated as the Academic Campus Zone and known as the “Green Zone.” The Academic Campus Zone is generally bounded by Campus Drive and Roth Way in the center of campus and includes many academic buildings, the Main Quad, and the Oval. It is reserved for research activities and student residences. Members of the public, alumni, faculty, and staff working remotely and their families are not permitted to enter this zone.

In preparation for the counts, the AECOM team cross-referenced the Academic Campus Zone with the cordon locations. Cordon count location numbers 1 and 16 are about 50 yards inside the Academic Campus Zone. AECOM contacted Stanford Transportation to request an exception to the restriction for these locations. Activities conducted 50 yards inside the zone included installing the tubes and checking them daily during the 2-week data collection period.

Hospital Use of Campus

The Stanford Hospital has remained open throughout the pandemic. Parking demand increased for hospital-related trips on the western side of campus, including the university parking lots, because of COVID-19 admissions and because public transit ridership decreased as people tried to avoid exposure to the virus. In addition, the hospitals are providing COVID-19 testing at the Galvez lot (Figure 6). This testing site served more than 500 community members a day through the fall quarter. Stanford expressed concerns that the hospital's temporary use of the campus could distort the fall cordon counts around the hospital and the testing site. While this use may have increased the automobile trips to campus, the reduction of large numbers of work and school trips (due to remote work and classes) resulted in the traffic volumes remaining well below the counts of the previous two decades.

Figure 6 – COVID Testing in Galvez Lot



Fall 2020 Counts

After discussing the situation with Stanford and AECOM, the County opted to conduct 2 weeks of counts in the fall of 2020, with a start date of September 28, 2020. Conversations also took place regarding data collection for the adjustments, including restroom access (the Stanford restrooms were all closed and locked to avoid the spread of the virus), a muster location away from the COVID testing sight, and lighting for the early morning start. In addition, the County decided to forego the adjustments (parking permit and cut-through traffic) and their associated data collection as the unadjusted raw counts were expected to be lower than the baseline.

Adjustments

Normally, the Monitoring Program applies two adjustments to the raw traffic counts. The first adjustment is for hospital vehicles parked inside the cordon, and for campus vehicles parked outside the cordon. This adjustment subtracts vehicles not affiliated with campus (hospital vehicles) that cross the cordon and adds in vehicles affiliated with the campus not crossing the cordon. The second adjustment is for cut-through traffic, for which program staff match license plates of vehicles entering and exiting the campus within a 20-minute interval when the campus is already not fully occupied.

For the parking permit adjustment, the parking lot AM inbound and PM outbound volumes are collected using tubes similar to those used for counting the traffic around the campus cordon. There are parking facilities inside and outside the cordon. Accordingly, hospital-affiliated cars parked inside the cordon are subtracted from the total and campus-affiliated cars parked outside the cordon are added to the total. Parking permit types are scanned in collaboration with Stanford staff, using Stanford's parking permit scanning equipment. This would normally involve traffic monitoring staff sharing a vehicle with Stanford's scanning staff.

For the cut-through-traffic adjustment, program staff are stationed around the perimeter of campus. They record license plate numbers for vehicles entering and leaving each cordon location. Vehicles that enter the cordon and leave through any gateway within an interval of 20 minutes are considered "cut-through" vehicles. Surveys are performed one day each week for both peak hours.

Due to the unusual circumstances and the complexity involved in collecting required data for such adjustments, the County opted in 2020 to forego applying these adjustments to the raw traffic counts.

These adjustments were deemed unnecessary as the raw counts were expected to be well below the original baseline conditions.

Results: Raw Traffic Data

The purpose of the Stanford Monitoring program is to determine automobile traffic volumes coming and leaving the campus and to compare them with the baseline established in 2001 under the 2000 GUP. This baseline is the raw traffic volumes adjusted for hospital parking and cut-through traffic, as described above. The established methodology for determining the traffic volumes for compliance was defined in the 2000 GUP and refined subsequently through the annual traffic reports between 2001 and 2020. Until 2020, there was never any need to compile and present the historic raw traffic volumes. The baseline used to determine compliance with the no-net-new trips mandate included the adjustments; the adjusted traffic volumes were always calculated as part of the monitoring program for that year.

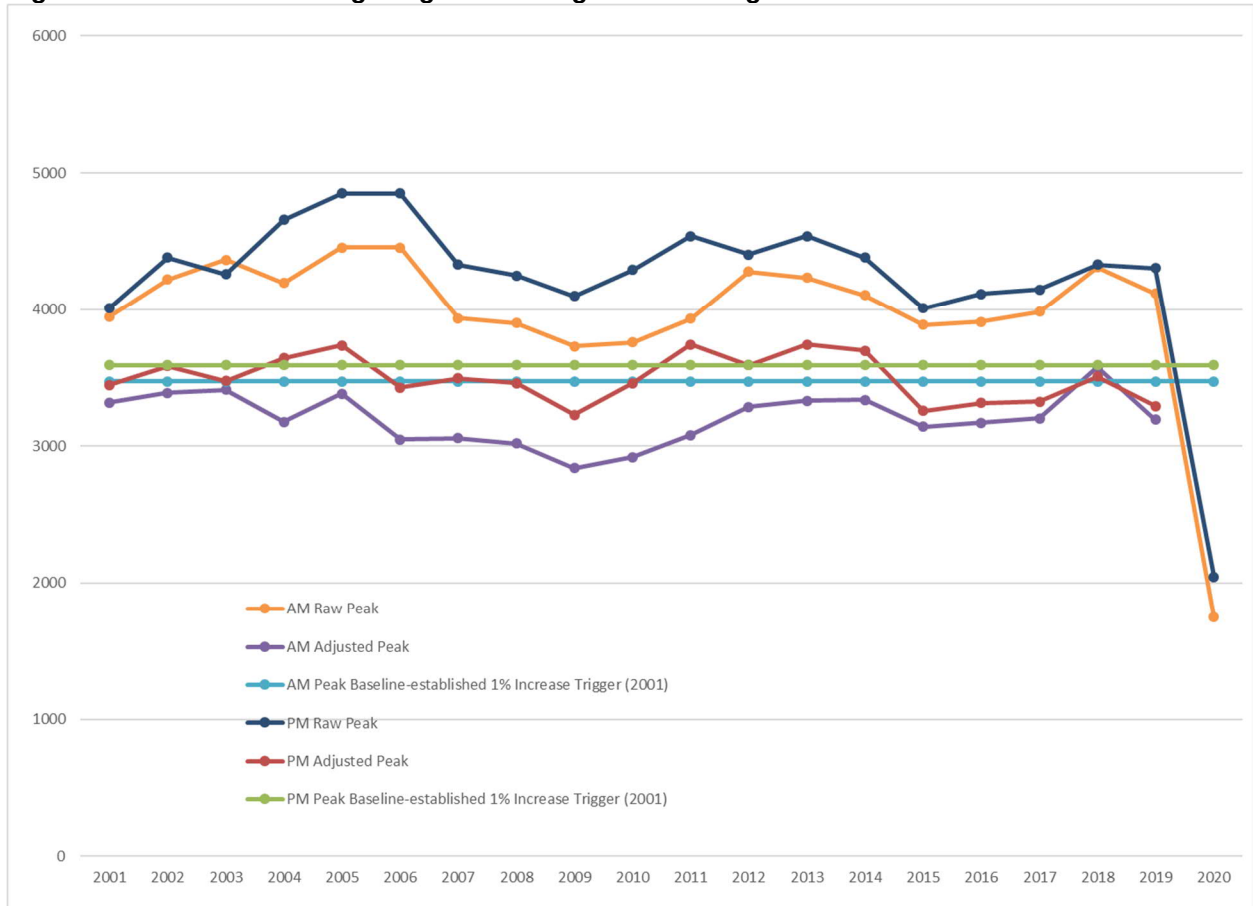
In 2020, the adjustment data were not collected because of the COVID-19 pandemic, as described earlier in this memorandum. This year, 2020, is the first year when the historic raw traffic data are relevant. Program staff therefore compiled the past data for comparison with this year's data collection findings. Table 2 displays the raw (unadjusted) traffic volumes between 2001, when it was first collected, and 2020. It shows that the average AM peak volume between 2001 and 2019 is 4,091 and the average volume for the PM peak for the same period is 4,355.

Figure 7, which is also presented in the main report, shows a graphical comparison of the raw counts, adjusted results and baselines. As shown, the raw traffic data collected in 2020 are about half of the usual levels.

Table 2 – Historic Raw Traffic Volumes

Year	AM Raw Peak	PM Raw Peak
2001	3,948	4,011
2002	4,223	4,381
2003	4,367	4,260
2004	4,194	4,657
2005	4,456	4,851
2006	4,456	4,851
2007	3,934	4,330
2008	3,899	4,251
2009	3,730	4,098
2010	3,757	4,291
2011	3,931	4,539
2012	4,280	4,404
2013	4,233	4,539
2014	4,105	4,383
2015	3,888	4,009
2016	3,908	4,114
2017	3,983	4,148
2018	4,310	4,331
2019	4,119	4,304
Average 2001-2019	4,091	4,355
2020	1,747	2,045

Figure 7 – Traffic Monitoring Program Findings 2001 through 2020





memorandum

date June 30, 2020

to Dave Rader, Santa Clara County; Charu Ahluwalia, Santa Clara County

cc Manira Sandhir, Santa Clara County

from Lesley Lowe, Stanford University; Brian Shaw, Stanford University

subject 2000 GUP Traffic Monitoring: Fall 2020 Monitoring

The impacts of COVID-19 have greatly altered Stanford University and Hospital operations, including a full shut down of the university in the early Shelter in Place phases and a shift in hospital operations to an emphasis on addressing COVID-19 needs while continuing to provide other urgently needed services under changing and difficult conditions. These changes led to the County delaying spring 2020 traffic monitoring.

Starting June 22nd, the university moved into phase 2 of a recovery plan. Phase 2 allows for essential on-campus research functions and associated support activities, including a small number of researchers, to return to campus to conduct work that cannot be done remotely. Future phases of the recovery plan remain conceptual and are subject to change in the event there is another Shelter in Place order. Considering this uncertainty, the university has communicated a framework for bringing some students back to campus for the fall quarterⁱ with the full intention of pivoting in the event new County orders become effective.

This memorandum outlines the known preliminary plans for fall operations to date and general considerations regarding effective and meaningful traffic data collection efforts for the fall cordon.

2020 Fall Quarter Plans (September-November)

Though planning is not complete, and some important decisions are yet to be made, the overall structure for the 2020-21 academic year was laid out by the university president in early June.

Stanford plans to start the fall quarter one week early, on Monday, September 14th, and end classes by Friday, November 20, 2020. In order to provide for the physical distancing needed in classrooms and residences, and to be able to set aside sufficient housing for quarantine or self-isolation in case of a wave of infections, the conceptual plan is to have half of the undergraduates (freshman and sophomore classes) back on campus for the fall quarter. They would then leave and the other half of the undergraduates (juniors and seniors) would be on campus during the winter and spring quarters. While in-person classes will be offered on campus, much of the undergraduate teaching will still need to be done online during the 2020-21 academic year. Graduate students and postdocs will be able to continue research on campus, and like the undergraduates, much of the instruction will be conducted online. Events on-campus, visitor tours, museums, performing arts, conferences, and athletics are anticipated to continue to be suspended. Staff who can do so will continue to work remotely.

Our transportation plans are continuing to evolve. The hospitals, who continue to respond to the pandemic have seen increased parking demand on the west side of campus, necessitating hospital use of the unoccupied university lots. Further, the hospitals are operating two COVID-19 testing centers in university parking lots at the Hoover and Galvez lots. Both testing sites will continue operating into the fall quarter. The hospitals' temporary uses of campus lands likely will distort and impact the proposed fall cordon counts.

In sum, university campus operations will be reduced compared to pre-COVID times. Hospital activity on the academic campus in support of addressing COVID-19 for our region likely will continue to increase and evolve. These conditions have created an unstable environment for monitoring any activity on campus with accuracy.

2020 Fall Monitoring – Important Considerations

Regarding the County's decision as to whether or how to conduct the Fall cordon monitoring, Stanford asks that the County consider the following:

Unrepresentative Data: As stated in the 2000 General Use Permit conditions, the transportation requirements were established to mitigate ongoing impacts associated with the population added to the campus under the use permit. Given the current environment at the campus and as projected for fall, any data collected this fall would not be representative of the campus' normal traffic patterns. There will be fewer students and events on campus compared to normal conditions. But people coming through the campus to access COVID-19 testing sites and hospital facilities may be higher than normal. It will be difficult to distinguish these trips.

A global pandemic is outside the university's control. Similar conditions were documented within past GUP Annual Monitoring Reports as abnormal and therefore not relevant to compliance with the conditions of approval. For example, groundwater percentage fluctuations were noted as abnormal in some years for reasons not within the control of the university, and not considered by the County to constitute violations of permit conditions. Here, the reach of the pandemic into transportation services alone such as Caltrain, have been devastating. Social distancing and COVID safety protocol requirements have, by and large, pushed essential workers into single occupancy vehicles. These are workers that normally would have taken transit now commuting to campus, further skewing the cordon numbers.

Cost Effectiveness of Monitoring: The cordon counts are a costly monitoring program due to the quantity of data and the nuanced adjustments that are needed to conduct the monitoring. Stanford has seen the cost of the monitoring increase steadily over the last few years, and it is now approximately \$350,000 annually. Condition G.5 notes that Stanford is responsible for the reasonable cost of the data collection to determine compliance with the monitoring condition. If the data is not useful in determining compliance and needs to be "grey boxed" as such, we question whether it is reasonable for Stanford to have to pay for it, particularly under these circumstances where COVID-19 has had a severe effect on the university's revenues, while also resulting in increased costs. Further, there is a concern that the costs of monitoring would be incrementally more in the fall given the need to collect data during Daylight Savings, to remove extra vehicular trips for the COVID testing sites, and to supply all personnel with protection equipment including disinfecting and hygienic supplies for the data collectors.

There is the option to solely collect the vehicular data at the cordon using tube counts, which would be much less expensive (anticipated costs of less than \$10,000); however, this count data cannot be used to calculate compliance with the No Net New Commute Trips standard accurately given the increased hospital operations. There is a concern that it would grossly overestimate the operations on the campus by conflating campus trips with hospital trips.

Exposure Risk: If the County decides to go forward with the fall cordon counts, there is of course the COVID-19 exposure risk associated with the data collection process. Beyond the County's Public Health Orders, the Stanford campus has protocols for safe operations that would require consultation with the offices of Environmental Health and Safety and Risk Management. Further, the parking staff that collects the data may not feel safe completing their duties given exposure risks.

Suggested Next Steps

In short, we strongly recommend the county allow a one-year delay in the cordon count report requirement for 2020. This one-year delay would not negate compliance with the 2000 GUP conditions given the abnormal conditions and the reduced operation and population on the campus. The extraordinary circumstance in which both the university and hospitals are operating is not reflective of standard past or future operations as portrayed in the 2000 GUP Environmental Impact Report. Further, as prior annual monitoring reports illustrated, the university was operating well within the requirements of the 2000 GUP conditions throughout the life of the permit. Finally, the university has concerns with ensuring the safety of its own staff as well as the county's contractors conducting the cordon count data collection on campus during this unprecedented global pandemic.

We look forward to working with the County to ensure that Stanford remains in compliance with the 2000 General Use Permit conditions as we all navigate through these unprecedented and complicated times.

ⁱ It should be noted that it is unknown how many students will matriculate this fall due to recent immigration orders impacting foreign nationals' ability to obtain a visa and growing cases of COVID-19 in the United States.



memorandum

date September 4, 2020
to Dave Rader, Santa Clara County; Charu Ahluwalia, Santa Clara County
cc Manira Sandhir, Santa Clara County
from Lesley Lowe, Stanford University; Brian Shaw, Stanford University
subject 2000 GUP Traffic Monitoring: Fall 2020 Monitoring Under COVID-19

The impacts of COVID-19 have greatly altered Stanford University and Hospital operations, including a full shut down of the university in the early Shelter in Place phases and a shift in hospital operations to an emphasis on addressing COVID-19 needs while continuing to provide other urgently needed services under changing and difficult conditions. These changes led to the County delaying spring 2020 traffic monitoring.

After discussions with County staff and further County deliberations, the staff has informed Stanford that the fall cordon counts will collect only the machine counts at the cordon locations. These means that the cordon counts monitoring will not include the time intensive adjustments for hospital parking and cut-through traffic. In support of this decision, this memorandum outlines the university's plans for fall operations and the information that should be considered with reviewing the data collected at the cordon this fall.

2020 Fall Quarter Plans (September-November)

On August 13, 2020, the university president announced that the public health situation due to COVID-19 made it infeasible to have an in-person 2020-21 academic year for fall 2020. As such a limited number of undergraduates will be on campus. Those undergraduates that continue to be on campus will be those that have hardship waivers. All classes will be held virtually.

Graduate students and postdocs will be able to continue research on campus, and like the undergraduates, instruction will be conducted online. Many graduate students will continue to live in campus housing as graduate housing is apartment style rather than dormitory style housing like undergraduates.

Events on-campus, visitor tours, museums, performing arts, conferences, and athletics continue to be suspended. Non-essential staff will continue to work remotely.

Campus Zones

To conform to recent guidance from the State of California, effective as of September 1st, the university has created a temporary campus zones program designed to maintain a safer and healthier academic environment, while preserving opportunities for the public to interact with campus lands. The state guidance requires that all institutions of higher education "limit, to the greatest extent permitted by law, external community members from entering the campus grounds and using campus resources, to reduce contact spreading. It also prohibits

most indoor classes at Stanford as long as Santa Clara County remains on the state's watch list and prohibits the use of indoor common areas.

The most restrictive zone is the core of the campus, the Academic Campus Zone, which is generally bounded by Campus Drive and Roth Way in the center of campus and including many academic buildings, the Main Quad and the Oval. This area is reserved for research activities, and student residences. Stanford is restricting members of the public, alumni, and faculty and staff working remotely and their families from entering this zone. These restrictive zones further reduce potential vehicular traffic generated by university operations.

Hospital Use of Campus

As regional transit continues to deal with the impacts of COVID-19, the hospitals, who continue to respond to the pandemic have seen increased parking demand on the west side of campus, spilling into the unoccupied university parking lots. Further, the hospitals are operating a COVID-19 testing site in the Galvez lot. The testing site serves over 500 community members a day and will continue operating into the fall quarter. The hospitals' temporary uses of campus lands will distort and impact the proposed fall cordon counts, both around the hospital itself and in and around the testing site.

Summary

In sum, university campus operations will be reduced compared to pre-COVID times. Hospital activity on the academic campus in support of addressing COVID-19 for our region will continue to increase and evolve. These conditions have created an unstable environment for monitoring university activity on campus with accuracy.

We look forward to working with the County to ensure that Stanford remains in compliance with the 2000 General Use Permit conditions as we all navigate through these unprecedented and complicated times.