

Appendix K
Traffic Study

Traffic Study for the

### Raising Cane's Project

In the City of Victorville

April 2024



# TRAFFIC STUDY FOR THE PROPOSED RAISING CANE'S PROJECT IN THE CITY OF VICTORVILLE

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# TRAFFIC STUDY FOR THE PROPOSED RAISING CANE'S PROJECT IN THE CITY OF VICTORVILLE

#### **EXECUTIVE SUMMARY**

This traffic study has been prepared to evaluate the project-related traffic effects associated with the proposed Raising Cane's fast-food restaurant ('Project') project in the City of Victorville ('City'). This traffic study has been conducted in accordance with the City of Victorville *General Guidelines for Conducting Traffic Studies and Determination of Intersection Level of Service and Improvement Needs* (January 2005) and the SANBAG *Congestion Management Plan* (CMP; June 2016).

The project has been evaluated during the weekday PM peak hour for the following conditions:

- Existing Conditions
- Opening Year 2025 Conditions
- Opening Year 2025 Conditions Plus Project
- Future Year 2035 Conditions
- Future Year 2035 Conditions Plus Project

Under Existing Conditions, the following study intersection currently operates at an unacceptable Level of Service (LOS):

D1 – Roy Rogers Drive at West Driveway: PM – LOS F

For Opening Year 2025 Conditions, a 2% annual ambient growth rate was applied to existing traffic volumes up to Opening Year 2025 to develop Opening Year 2025 Conditions.

Under Opening Year 2025 conditions, the following study intersection would operate at an unacceptable Level of Service (LOS):

D1 – Roy Rogers Drive at West Driveway: PM – LOS F

The project is estimated to generate approximately 982 net new vehicle trips on a daily basis, with 43 net new trips (22 inbound and 21 outbound) during the PM peak hour.

Project-related traffic volumes were added to Opening Year 2025 forecasts to establish the conditions for the Opening Year 2025 Plus Project scenario. With the addition of project traffic, all study intersections would operate at an acceptable LOS.

For Future Year 2035 Conditions, a 2% annual ambient growth rate was applied to existing traffic volumes up to Future Year 2035. In addition to ambient growth, Cumulative Project traffic volumes were added to develop Future Year 2035 Conditions.

Under Future Year 2035 conditions the following study intersection would operate at an unacceptable Level of Service (LOS):

D1 – Roy Rogers Drive at West Driveway: PM – LOS F

Project-related traffic volumes were added to Future Year 2035 forecasts to establish the conditions for the Future Year 2035 Plus Project scenario. With the addition of project traffic, all study intersections would operate at an acceptable LOS.

Vehicular access provisions to the project site would be provided via one existing right-in-right-out (RIRO) driveway on Roy Rogers Drive (East Driveway), one ¾ access (left-turn out restricted) driveway on Roy Rogers Drive (West Driveway), and one existing full-movement driveway on Civic Drive. All project driveways would be unsignalized.

It should be noted that the proposed ¾ access (left-turn out restricted) driveway on Roy Rogers Drive (West Project Driveway) would align with an existing full-movement access driveway to Desert Sky Plaza Shopping Center just south of Roy Rogers Drive. City staff has requested that the access at this intersection be limited to left out restricted for both driveways. For analysis purposes, the modified access at this driveway intersection is only applied under "Plus Project" conditions.

The opening to the drive-through lane would be located at the west side of the project site and wrap around the west, south and east sides of the building in a counterclockwise direction before exiting on the northeast corner of the project site. The drive-through would provide one entry lane that splits into two lanes prior to the dual order boards, which would allow Raising Cane's to take orders from two customers at the same time. After the order boards, the two lanes would merge back into a single drive-through lane prior to the pay and pick-up window.

There will be approximately 300 feet of total queuing lane capacity (approximately 150 feet per lane) from the opening of the drive-through to the two order boards and approximately 120 feet from the order boards to the pay and pick-up window. This would provide a total drive-through queue length of approximately 420 feet, for a drive-through queuing capacity of 21 vehicles, assuming 20 feet per vehicle, from the beginning of the drive-through to the pick-up window.

During peak operations, the two drive-through lanes would not merge after the order boards, providing an additional pay and pick-up lane. The second pay and pick-up lane would provide an additional 120 feet of queue lane capacity, or 6 vehicles. This would provide a total drive-through queue length of approximately 540 feet for a drive-through queuing capacity of 27 vehicles, assuming 20 feet per vehicle.

Based on the drive-through queuing data, the peak observed queue was 25 vehicles. The proposed site would have a drive-through queuing capacity of 27 vehicles; therefore, the proposed capacity would be able to accommodate the expected peak demand.

# TRAFFIC STUDY FOR THE PROPOSED RAISING CANE'S PROJECT IN THE CITY OF VICTORVILLE

#### INTRODUCTION

This traffic study has been prepared to evaluate the project-related traffic effects associated with the proposed Raising Cane's fast-food restaurant located approximately 350 feet west of the intersection of Roy Rogers Drive and Civic Drive in the City of Victorville.

This traffic study has been conducted in accordance with the City of Victorville *General Guidelines for Conducting Traffic Studies and Determination of Intersection Level of Service and Improvement Needs* (January 2005) and the SANBAG *Congestion Management Plan* (CMP; June 2016). This study includes an evaluation of project-related effects on the surrounding roadway system, a drive-through queuing analysis, and a Vehicle Miles Traveled (VMT) screening.

#### PROJECT DESCRIPTION

The project site is located approximately 350 feet west of the intersection of Roy Rogers Drive and Civic Drive in the City of Victorville and is shown in its regional setting on Figure 1. The site is currently vacant land. The applicant proposes to develop an approximately 2,899 square-foot (SF) Raising Cane's restaurant building with drive-through. A copy of the project site plan is provided on Figure 2.

Vehicular access provisions to the project site would be provided via one existing right-in-right-out (RIRO) driveway on Roy Rogers Drive (East Project Driveway), one ¾ access (left-turn out restricted) driveway on Roy Rogers Drive (West Project Driveway), and one existing full-movement driveway on Civic Drive. All project driveways would be unsignalized.

It should be noted that the proposed ¾ access (left-turn out restricted) driveway on Roy Rogers Drive (West Project Driveway) would align with an existing full-movement access driveway to Desert Sky Plaza Shopping Center just south of Roy Rogers Drive. City staff has requested that the access at this intersection be limited to left out restricted for both driveways. A conceptual striping plan of this modified access is provided in *Appendix F*. For analysis purposes, the modified access at this driveway intersection is only applied under "Plus Project" conditions.

The proposed project would provide a drive-through with two order boards. The drive-through would provide two side-by-side entry lanes prior to the dual order boards, and then merge into a single drive-through lane prior to the pay and pick-up window. During peak operations, the two drive-through lanes would not merge after the order boards, providing an additional pay and pick-up lane.

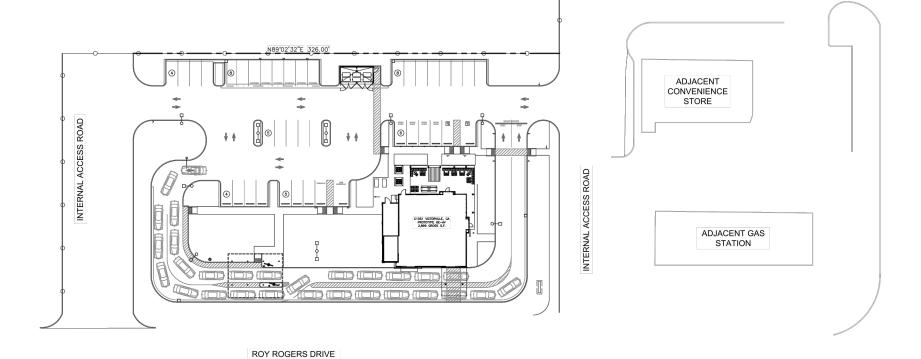


FIGURE 2 **PROJECT SITE PLAN** 

S

**Kimley Morn** 

#### LEVEL OF SERVICE (LOS) ANALYSIS

This Level of Service (LOS) analysis has been prepared in coordination with the City of Victorville *General Guidelines for Conducting Traffic Studies and Determination of Intersection Level of Service and Improvement Needs* (January 2005) and the SANBAG CMP (June 2016).

#### Analysis Scenarios

The project will be evaluated for the following conditions:

- Existing Conditions
- Opening Year 2025 Conditions
- Opening Year 2025 Conditions Plus Project
- Future Year 2035 Conditions
- Future Year 2035 Conditions Plus Project

#### Study Locations

The LOS analysis will be conducted at the following study intersections:

- 1. Civic Drive at Roy Rogers Drive
- D1. Roy Rogers Drive at West Driveway
- D2. Roy Rogers Drive at East Driveway
- D3. Civic Drive at Project Driveway

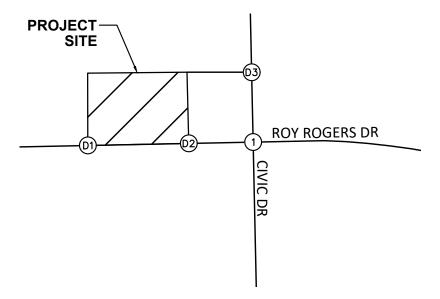
The study locations were established in consultation with City staff through the scoping agreement process. A copy of the approved scoping agreement is provided in *Appendix A*. Existing Lane configurations and traffic control for the study intersections are shown on Figure 3. Lane configurations and traffic control used for Plus Project scenarios for the study intersections are shown on Figure 4.

#### Analysis Methodology

Peak hour intersection operations at the study intersections were evaluated using the methods prescribed in the <u>Highway Capacity Manual</u> (HCM) 7<sup>th</sup> Edition, consistent with the requirements of the City of Victorville.

The intersection analysis for the proposed project has been accomplished using the VISTRO software program and using the specified input parameters outlined in the City's *General Guidelines for Conducting Traffic Studies and Determination of Intersection Level of Service and Improvement Needs* (January 2005).





1. Civic Roy Roge	Drive at ers Drive	D1. Roy Ro at West I	gers Drive Driveway	
<b>₩</b>	OVL OVL		# <u> </u>	
D2. Roy Ro at East D	gers Drive Priveway	D3. Civic Drive at Project Driveway		
	<b>=</b>			
₹			71	

#### FIGURE 3 **EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL**



= Study Intersection



= Turn or Through Lane



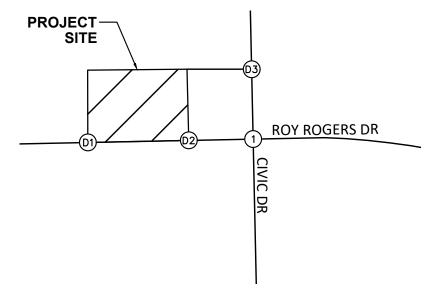
= Signal



= Stop Sign OVL = Right-Turn Overlap







	Drive at ers Drive	D1. Roy Rogers Driv at West Driveway				
<b>₩</b>	OVL	***************************************	*			
D2. Roy Ro at East D	gers Drive Priveway	D3. Civic Drive at Project Driveway				
		4				
₹		$\overline{}$	71			

## FIGURE 4 PLUS PROJECT LANE CONFIGURATION AND TRAFFIC CONTROL



 $\otimes$ 

= Study Intersection



= Turn or Through Lane



= Signal

= Stop Sign

OVL = Right-Turn Overlap

\* = New for "Plus Project"



For signalized intersections, the HCM methodology estimates the average delay (in average seconds per vehicle) for each of the movements through the intersection, considering a number of factors, including number of lanes, volume of traffic, cycle length, and signal timing and phasing.

For unsignalized intersections, the HCM methodology determines the average total delay, expressed in seconds of delay per vehicle for left turns from the major street and from the stop-controlled minor street traffic stream for a two-way stop controlled (TWSC) intersection. Delay values are calculated based on the relationship between traffic on the major street and the availability of acceptable "gaps" in this stream through which conflicting traffic movements can be made. For TWSC intersections the LOS is based on the turning movement with the highest average delay.

The HCM delay forecast translates to an LOS designation, ranging from LOS A to LOS F. A summary description of each LOS and the corresponding delay is provided in the following charts:

	LEVEL OF SERVICE DEFINITIONS
Level of Service	Description
А	No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication. Typically, the approach appears quite open, turns are made easily and nearly all drivers find freedom of operation.
В	This service level represents stable operation, where an occasional approach phase is fully utilized, and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.
С	This level still represents stable operating conditions. Occasionally drivers may have to wait through more than one red signal indication, and backups may develop behind turning vehicles. Most drivers feel somewhat restricted but not objectionably so.
D	This level encompasses a zone of increasing restriction, approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak period; however, enough cycles with lower demand occur to permit periodic clearance of developing queues, thus preventing excessive backups.
E	Capacity occurs at the upper end of this service level. It represents the most vehicles that any particular intersection approach can accommodate. Full utilization of every signal cycle is seldom attained no matter how great the demand.
F	This level describes forced flow operations at low speeds, where volumes exceed capacity. These conditions usually result from queues of vehicles backing up from a restriction downstream. Speeds are reduced substantially, and stoppages may occur for short or long periods of time due to the congestion. In the extreme case, both speed and volume can drop to zero.

LEVEL OF SERVICE CRITERIA FOR SIGNALIZED AND UNSIGNALIZED INTERSECTIONS						
Level of Service	Unsignalized Intersections (Average delay per vehicle, in seconds) <sup>2</sup>					
А	<u>&lt;</u> 10	0 – 10				
В	> 10 – 20	> 10 – 15				
С	> 20 – 35	> 15 – 25				
D	> 35 – 55	> 25 – 35				
Е	> 55 – 80	> 35 – 50				
F	> 80	> 50				

<sup>&</sup>lt;sup>1</sup> Source: Highway Capacity Manual (HCM 7<sup>th</sup> Edition), Exhibit 19-8.

#### Performance Criteria

The City of Victorville Level of Service standard for peak hour intersection operation is Level of Service D (LOS D) and volume-to-capacity (V/C) ratio of 0.95 or less for each movement. Intersection improvements would be required if the addition of project traffic causes an intersection to fall below these thresholds.

<sup>&</sup>lt;sup>2</sup> Source: Highway Capacity Manual (HCM 7<sup>th</sup> Edition), Exhibit 20-2.

#### AREA CONDITIONS

#### Existing Street System

Regional access to the site is provided by the Interstate 15 (I-15) freeway located approximately ¼ mile east of the project site. The following provides a description of the local roadways providing access to the project area.

Roy Rogers Drive is an east-west divided roadway that provides two to three lanes in each direction within the project vicinity. The posted speed limit is 45 miles per hour (mph) and on-street parking is prohibited on both sides of the roadway. Roy Rogers Drive is designated as an Arterial west of Amargosa Road, a Super Arterial from Amargosa Road to La Paz Drive, and an Arterial east of La Paz Drive in the City of Victorville Circulation Element.

*Civic Drive* is a north-south roadway that provides one to two lanes in each direction. The posted speed limit is 45 mph and on-street parking is prohibited on both sides of the roadway. Civic Drive is designated as an Arterial in the City of Victorville Circulation Element.

#### **Transit Service**

Transit service to the project area is provided by the Victor Valley Transit Authority (VVTA), which serves Victorville and the surrounding area. The bus stop closest to the project site is located on the northeast corner of Roy Rogers Drive and the Desert Sky Plaza driveway, across the street from the project site. A description of the bus routes serving the project area is provided below.

Victor Valley Transit Route 31 (VVTC – Adelanto) operates between the Victorville Amtrak Station and US Route 395 along Roy Rogers Drive in the project vicinity. Transit service operates Monday through Friday from approximately 6:55 AM to 7:50 PM with approximately 1-hour headways from 6:55 to 7:55 AM and 4:50 to 7:50 PM and approximately 30-minute headways from 7:55 AM to 4:50 PM. Transit service operates on Saturday from approximately 6:40 AM to 7:15 PM with approximately 75-minute headways and on Sunday from approximately 7:50 AM to 5:50 PM with approximately 75-minute headways.

Victor Valley Transit Route 52 (VVTC – Mall of Victor Valley) operates between the Victorville Amtrak Station and the Mall of Victor Valley along Amargosa Road in the project vicinity. Transit service operates Monday through Friday from approximately 6:30 AM to 8:50 PM with approximately 1-hour headways from 6:30 to 7:30 AM and 6:30 to 8:50 PM and approximately 30-minute headways from 7:30 AM to 6:30 PM. Transit service operates on Saturday from approximately 7:15 AM to 7:45 PM with approximately 75-minute headways and on Sunday from approximately 8:30 AM to 5:15 PM with approximately 75-minute headways.

Victor Valley Transit Route 56 (VVTC – Lorene and 7th) operates between the Victorville Amtrak Station and Victor Valley Christian High School along Roy Rogers Drive and Civic Drive in the project vicinity. Transit service operates Monday through Friday from approximately 6:15 AM to 8:40 PM with approximately 1-hour headways. Transit service operates on Saturday from approximately 7:00 AM to 6:20 PM with approximately 75-minute headways and on Sunday from approximately 7:50 AM to 6:00 PM with approximately 80-minute headways.

#### **EXISTING OPERATING CONDITIONS**

#### **Existing Traffic Volumes**

The intersection analysis was conducted for the evening peak hour, since the proposed project is not open during the AM peak hour. Existing PM peak hour turning movement counts for the study intersections were collected on a typical weekday in December 2023, while school was in session. The resulting existing baseline traffic volumes are presented on Figure 5. Intersection traffic count worksheets are provided in *Appendix B*.

#### Peak Hour Intersection Operations

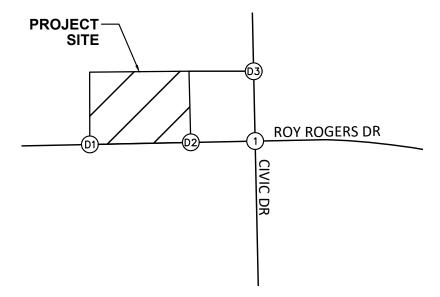
Intersection LOS analysis was conducted during the PM peak hour using the analysis procedures and assumptions described previously in this report. The results of the intersection analysis for Existing Conditions are shown on Table 1. Intersection analysis worksheets are provided in *Appendix C*.

Review of this table indicates that the following study intersection currently operates at an unacceptable Level of Service (LOS):

• D1 – Roy Rogers Drive at West Driveway: PM – LOS F

The Level of Service for an unsignalized intersection is reported based on the single approach movement with the highest delay, which in this case, would be the northbound left-turn movement for intersections D1. The traffic on this approach would experience delay during the evening peak hour while waiting for an acceptable gap in traffic on Roy Rogers Drive. While the side street approach operates at a deficient Level of Service based on the highest delay movement, the overall intersection delay would be acceptable. Any queuing that occurs on the side street is contained on the minor approach and would not impact the progression of traffic on the main arterial.





1. Civic Drive at Roy Rogers Drive	D1. Roy Rogers Drive at West Driveway		
9 \( \frac{\chi}{\chi} \) \( \	4942 2 48 804 → 1 131 → 82 9		
D2. Roy Rogers Drive at East Driveway	D3. Civic Drive at Project Driveway		
832 →	27 <del>88                                  </del>		

### FIGURE 5 EXISTING TRAFFIC VOLUMES

#### LEGEND:



= Study Intersection

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## TABLE 1 SUMMARY OF INTERSECTION OPERATION EXISTING CONDITIONS

		Traffic	PM Peak Hour		
Int.#	Intersection	Control	Delay	V/C	LOS
1	Civic Drive at Roy Rogers Drive	S	21.1	0.490	С
D1	Roy Rogers Drive at West Driveway	U	78.3	0.725	F
D2	Roy Rogers Drive at East Driveway	U	13.9	0.067	В
D3	Civic Drive at Project Driveway	U	10.7	0.015	В

#### Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- S = Signalized
- U = Unsignalized

#### **OPENING YEAR 2025 CONDITIONS**

The project opening year is anticipated to be 2025. Lane configuration and traffic control were assumed to be the same as existing. Opening Year 2025 traffic forecasts have been developed by adding an ambient growth rate of two percent (2%) per year to existing traffic volumes. The resulting volumes are shown on Figure 6.

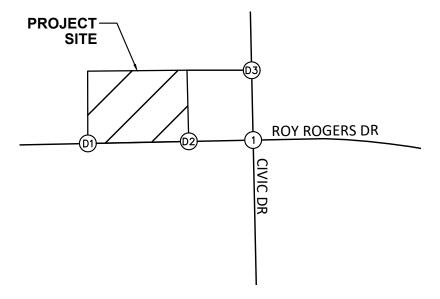
#### Peak Hour Intersection Operations

Intersection Level of Service analysis was conducted for the PM peak hour for Opening Year 2025 conditions. The scenario results of the intersection analysis are shown on Table 2. Copies of Opening Year 2025 intersection analysis worksheets are provided in *Appendix C*.

Review of this table indicates that the following study intersection would operate at an unacceptable Level of Service (LOS):

D1 – Roy Rogers Drive at West Driveway: PM – LOS F





1. Civic Drive at Roy Rogers Drive	D1. Roy Rogers Drive at West Driveway		
257 46 → ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	2980 ← 980 ← 50 136 → 1 136 → 1 136 → 20		
D2. Roy Rogers Drive at East Driveway	D3. Civic Drive at Project Driveway		
865 →	38 7 7 6 1 13 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

FIGURE 6 OPENING YEAR 2025 TRAFFIC VOLUMES

#### LEGEND:



= Study Intersection

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#### TABLE 2 SUMMARY OF INTERSECTION OPERATION OPENING YEAR 2025

		Traffic	PM Peak Hour		
Int.#	Intersection	Control	Delay V/C L		LOS
1	Civic Drive at Roy Rogers Drive	S	S 21.4 0.509		С
D1	Roy Rogers Drive at West Driveway	U	103.0	0.812	F
D2	Roy Rogers Drive at East Driveway	U	14.2	0.071	В
D3	Civic Drive at Project Driveway	U	10.9	0.016	В

#### Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- S = Signalized
- U = Unsignalized

#### PROJECT TRAFFIC

#### Project Trip Generation

Trip generation estimates for the existing and proposed land uses are based on the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (11th Edition) average rates for Fast-food Restaurant with Drive-through (ITE Land Use 934). Pass-by reduction factors were also applied based on the ITE <u>Trip Generation Manual</u> (11th Edition).

The trip generation rates, and the resulting trip generation estimates for the proposed project are summarized on Table 3. The proposed project is estimated to generate 1,355 daily trips with 96 trips (50 inbound and 46 outbound) in the evening peak hour. After applying pass-by reduction factors, the proposed project would generate 982 net new trips on a daily basis with 43 trips (22 inbound and 21 outbound) in the evening peak hour.

#### Trip Distribution and Assignment

Trip distribution assumptions for the project were based on proximity to regional and local roadways and existing travel patterns. Trip distribution percentages at each study intersection were applied to the project trip generation to determine the project trips through each study intersection. The project trip distribution and resulting project-related peak hour trips to be added to the study intersections are shown on Figure 7.

For "Plus Project" scenarios, the existing northbound left-turn volumes at the intersection of Roy Rogers Drive at West Driveway (D1) were re-routed to make a northbound right-turn at the noted intersection and an eastbound left-turn at the intersection of Civic Drive at Roy Rogers Drive (#1) to account for the proposed left-out restrictions.

#### OPENING YEAR 2025 PLUS PROJECT CONDITIONS

Project-related traffic was added to the Opening Year 2025 traffic volumes. Opening Year 2025 Plus Project traffic volumes at the study intersections are shown on Figure 8.

#### Peak Hour Intersection Operations

Intersection LOS analysis was conducted for the PM peak hour for Opening Year 2025 Plus Project conditions. The results of the intersection analysis are shown on Table 4.

Review of this table indicates that all study intersections would operate at an acceptable LOS with the addition of project traffic.

It should be noted that the intersection of Roy Rogers Drive at West Driveway now operates at an acceptable Level of Service with the proposed left-out restriction for "Plus Project" scenarios as noted earlier in the report. The left-out restriction would improve overall traffic safety by limiting the number of broadside collisions at the intersection.

### TABLE 3 SUMMARY OF PROJECT TRIP GENERATION VICTORVILLE RAISING CANE'S

			Trip Generation Rates <sup>1</sup>						
	ITE			AM Peak Hour PM Peak Hour			our		
Land Use	Code	Unit	Daily	In	Out	Total	In	Out	Total
Fast-Food Restaurant w/ Drive-thru	934	KSF	467.480	22.751	21.859	44.610	17.176	15.854	33.030

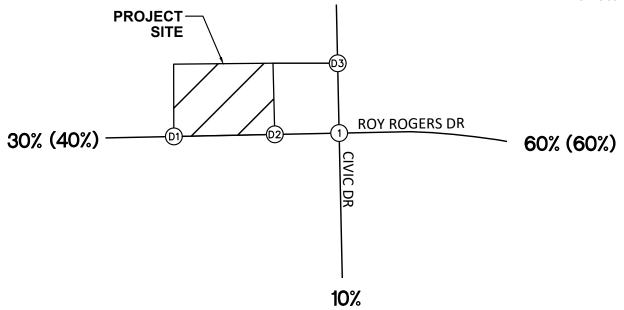
			Trip Generation Estimates						
				AM Peak Hour <sup>3</sup>		PM Peak Hou		our	
Land Use	Quantity	Unit	Daily	In	Out	Total	In	Out	Total
Fast-Food Restaurant w/ Drive-thru	2.899	KSF	1,355	-	-	-	50	46	96
Pass-by Trips (27.5% Daily, 0% AM, 55% PM) <sup>2</sup>			-373	-	-	-	-28	-25	-53
Net Trips			982	-	-	-	22	21	43
Total Project Trips			982	-	-	-	22	21	43

<sup>&</sup>lt;sup>1</sup> Source: Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 11th Edition

<sup>&</sup>lt;sup>2</sup> Note: The <u>Trip Generation Manual</u> does not provide pass-by rates for daily trip generation. The daily pass-by percentage shown is the average between the AM and PM pass-by percentages.

<sup>&</sup>lt;sup>3</sup> Raising Cane's is not open during the AM peak hour.





<ol> <li>Civic Drive at Roy Rogers Drive</li> </ol>	D1. Roy Rogers Drive at West Driveway				
01 → 5	<u>5</u> ←2				
D2. Roy Rogers Drive at East Driveway	D3. Civic Drive at Project Driveway				
01 18 4-6	25 - 25 - 25				

FIGURE 7 TRIP DISTRIBUTION AND **PROJECT-RELATED TRAFFIC VOLUMES** 

#### LEGEND:

 $\otimes$ 

= Study Intersection

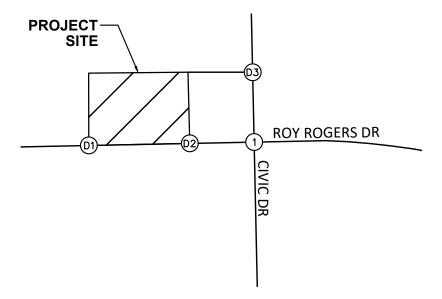
XX%

= Trip Distribution Percentage

(**YY%**) = Pass-By Distribution







1. Civic Drive at	D1. Roy Rogers Drive
Roy Rogers Drive	at West Driveway
112 -	7 → 11 ← 982 ← 50 7 → 7 836 → 6 136 → 6 9
D2. Roy Rogers Drive	D3. Civic Drive at
at East Driveway	Project Driveway
993→	62 C C C C C C C C C C C C C C C C C C C

# FIGURE 8 OPENING YEAR 2025 PLUS PROJECT TRAFFIC VOLUMES

#### LEGEND:



= Study Intersection

XX



## TABLE 4 SUMMARY OF INTERSECTION OPERATION OPENING YEAR 2025 PLUS PROJECT

			PM Peak Hour								
			Without Project			With Project				01	Project-
Int.#	Intersection	Traffic Control	Delay	V/C	LOS	Delay	V/C	LOS	Change in Delay	Change in V/C	Related Effect?
1	Civic Drive at Roy Rogers Drive	S	21.4	0.509	С	26.9	0.576	С	5.5	0.067	No
D1	Roy Rogers Drive at West Driveway	U	103.0	0.812	F	19.0	0.432	С	-84.0	-0.380	No
D2	Roy Rogers Drive at East Driveway	U	14.2	0.071	В	14.6	0.098	В	0.4	0.027	No
D3	Civic Drive at Project Driveway	U	10.9	0.016	В	12.0	0.018	В	1.1	0.002	No

#### Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- S = Signalized
- U = Unsignalized

#### **FUTURE YEAR 2035 CONDITIONS**

Future Year 2035 traffic forecasts have been developed by adding an ambient growth rate of 2% per year to Opening Year 2025 traffic volumes.

#### **Cumulative Projects**

In addition to ambient growth, Cumulative Project traffic volumes were added to Opening Year 2025 traffic volumes. Information regarding Cumulative Projects in the area was provided by the City of Victorville website. Cumulative Projects consist of development projects that have been approved but are not yet constructed/occupied, and projects that are in various stages of the application and approval process but have not yet been approved. A summary of Cumulative Projects in the project vicinity and the trip generation associated with each is provided on Table 5. The locations of the Cumulative Projects are shown on Figure 9.

Trip generation information for the Cumulative Projects was obtained from approved traffic studies, where available; or was developed by Kimley-Horn if approved traffic studies were not available. Likewise, trip distribution and assignment for the Cumulative Projects were either obtained from approved traffic studies, where available; or were developed by Kimley-Horn if approved traffic studies were not available. Project information and trip distribution assumptions for Cumulative Projects are provided in *Appendix D*. Traffic volumes associated with Cumulative Projects were compiled for each of the study intersections and are shown on Figure 10.

The ambient growth and the project-related traffic volumes from the Cumulative Projects were added to the Opening Year 2025 traffic volumes to develop Future Year 2035 traffic forecasts. The resulting traffic volumes are shown on Figure 11.

#### Peak Hour Intersection Operations

Intersection LOS analysis was conducted for the PM peak hour for the Future Year 2035 condition. The scenario results of the intersection analysis are shown on Table 6.

Review of this table indicates that, with the addition of ambient growth and cumulative project traffic, the following study intersection would operate at an unacceptable Level of Service (LOS):

• D1 – Roy Rogers Drive at West Driveway: PM – LOS F

### TABLE 5 SUMMARY OF CUMULATIVE PROJECTS TRIP GENERATION

								Trip Generation Estimates								
				AM Peak Hour			PM	PM Peak Hour								
Project #	Location	Land Use	Quantity	Unit	Daily	In	Out	Total	In	Out	Total					
1	15425 Dos Palmas Rd	Automobile Parts and Service Center	1.200	KSF	20	2	1	3	1	2	3					
2	14281 7th St	Church	6.050	KSF	46	1	1	2	1	2	3					
3	13721 Park Ave	Automobile Parts and Service Center	18.000	KSF	299	25	10	35	14	23	37					
4	14195 Macart Rd	Multifamily Housing (Low-Rise)	24	DU	162	2	7	9	8	5	13					
Total Projec	ct Trips				527	30	19	49	24	32	56					

KSF = Thousand Square Feet, DU = Dwelling Units



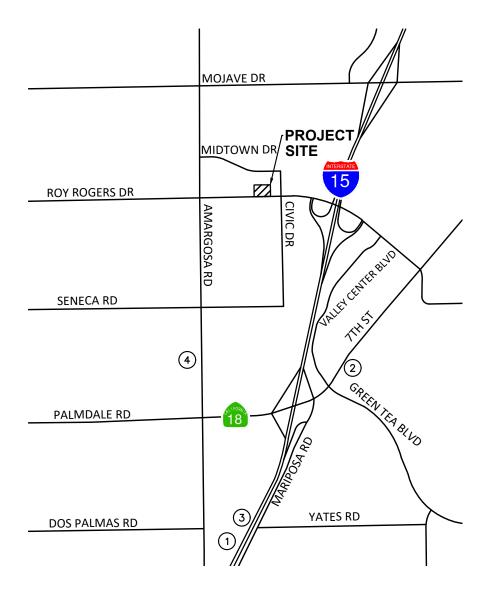


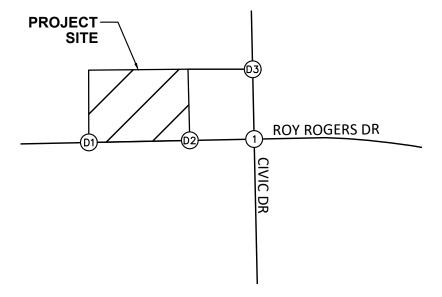
FIGURE 9 LOCATION OF CUMULATIVE PROJECTS

LEGEND:

(X) = Cumulative Project







	Drive at ers Drive	D1. Roy Rogers Drive at West Driveway					
	←6		<b>←</b> 6				
8→		8→					
D2. Roy Ro at East D	gers Drive Priveway	D3. Civic Drive at Project Driveway					
8→	<b>←</b> 6						

FIGURE 10 CUMULATIVE PROJECT TRAFFIC VOLUMES

#### LEGEND:

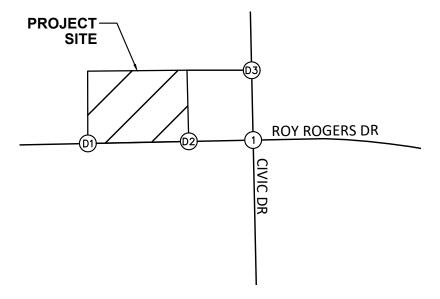


= Study Intersection

XX







<ol> <li>Civic Drive at</li></ol>	D1. Roy Rogers Drive
Roy Rogers Drive	at West Driveway
07 130 4 1084 306 55 7 7 7 7 7 84 7	1005 → 162 →
D2. Roy Rogers Drive	D3. Civic Drive at
at East Driveway	Project Driveway
1040→	11

FIGURE 11 FUTURE YEAR 2035 TRAFFIC VOLUMES

#### LEGEND:



= Study Intersection

XX



### TABLE 6 SUMMARY OF INTERSECTION OPERATION FUTURE YEAR 2035

		Traffic	PM Peak Hour		
Int.#	Intersection	Control	Delay	V/C	LOS
1	Civic Drive at Roy Rogers Drive	S	23.6	0.595	С
D1	Roy Rogers Drive at West Driveway	U	>300.0	1.466	F
D2	Roy Rogers Drive at East Driveway	U	16.2	0.103	С
D3	Civic Drive at Project Driveway	U	11.5	0.021	В

#### Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- S = Signalized
- U = Unsignalized

#### FUTURE YEAR 2035 PLUS PROJECT CONDITIONS

Project-related traffic was added to the Future Year 2035 traffic volumes. Future Year 2035 Plus Project traffic volumes at the study intersections are shown on Figure 12.

#### Peak Hour Intersection Operations

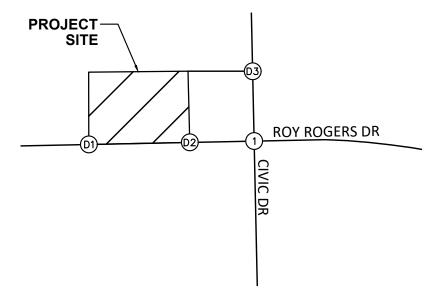
Intersection LOS analysis was conducted for during the PM peak hour for Future Year 2035 Plus Project conditions. The results of the intersection analysis are shown on Table 7.

Review of this table indicates that all study intersections would operate at an acceptable LOS with the addition of project traffic.

#### RECOMMENDED IMPROVEMENTS

Based on the LOS standards and requirements for improvements noted earlier in the report (see page 10), no additional improvements are required for the proposed project. As noted earlier in the report, the proposed  $\frac{3}{4}$  access (left-turn out restricted) driveway on Roy Rogers Drive (West Project Driveway) would align with an existing full-movement access driveway to Desert Sky Plaza Shopping Center just south of Roy Rogers Drive. City staff has requested that the access at this intersection be limited to left out restricted for both driveways. A conceptual striping plan of this modified access is provided in *Appendix F*.





1. Civic Drive at	D1. Roy Rogers Drive				
Roy Rogers Drive	at West Driveway				
0.00 ← 133 0.00 ← 1094 0.00	7 7 7 1005 → 162 → 88				
D2. Roy Rogers Drive	D3. Civic Drive at				
at East Driveway	Project Driveway				
1168→	71 7 12 21 8 15 7 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2				

#### FIGURE 12 FUTURE YEAR 2035 PLUS PROJECT TRAFFIC VOLUMES

#### LEGEND:



= Study Intersection

XX



## TABLE 7 SUMMARY OF INTERSECTION OPERATION FUTURE YEAR 2035 PLUS PROJECT

			PM Peak Hour								
			Without Project			With Project			Change		Project-
Int.#	Intersection	Traffic Control	Delay	V/C	LOS	Delay	V/C	LOS	in Delay	Change in V/C	Related Effect?
1	Civic Drive at Roy Rogers Drive	S	23.6	0.595	С	29.3	0.654	С	5.7	0.059	No
D1	Roy Rogers Drive at West Driveway	U	>300.0	1.466	F	24.4	0.532	С	- >300.0	-0.934	No
D2	Roy Rogers Drive at East Driveway	U	16.2	0.103	С	16.6	0.132	С	0.4	0.029	No
D3	Civic Drive at Project Driveway	U	11.5	0.021	В	12.7	0.024	В	1.2	0.003	No

#### Notes:

- Bold values indicate intersections operating at an unacceptable Level of Service.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.
- S = Signalized
- U = Unsignalized

#### DRIVE-THROUGH QUEUING ANALYSIS

A drive-through queuing analysis has been conducted for the proposed project to evaluate the adequacy of the drive-through lane queuing capacity.

The opening to the drive-through lane would be located at the west side of the project site and wrap around the west, south, and east sides of the building in a counterclockwise direction before exiting on the northeast corner of the project site. The drive-through would provide one entry lane that splits into two lanes prior to the dual order boards, which would allow Raising Cane's to take orders from two customers at the same time. After the order boards, the two lanes would merge back into a single drive-through lane prior to the pay and pick-up window.

There will be approximately 300 feet of total queuing lane capacity (approximately 150 feet per lane) from the opening of the drive-through to the two order boards and approximately 120 feet from the order boards to the pay and pick-up window. This would provide a total drive-through queue length of 420 feet, for a drive-through queuing capacity of 21 vehicles, assuming 20 feet per vehicle, from the beginning of the drive-through to the pay and pick-up window.

During peak operations, the two drive-through lanes would not merge after the order boards, providing an additional pay and pick-up lane. The second pay and pick-up lane would provide an additional 120 feet of queue lane capacity, or 6 vehicles. This would provide a total drive-through queue length of approximately 540 feet for a drive-through queuing capacity of 27 vehicles, assuming 20 feet per vehicle.

Drive-Through Queuing Data Collection

Drive-through (DT) queuing observations and counts were conducted at the following existing drive-through Raising Cane's sites:

- City of Orange: 2249 North Tustin Street (~3,823 SF; DT Lane Capacity: 13 vehicles)
- City of Huntington Beach: 10142 Adams Avenue (~3,234 SF; DT Lane Capacity: 24 vehicles)
- City of Foothill Ranch: 26782 Portola Parkway (~3,846 SF; DT Lane Capacity: 17 vehicles)

These sites were selected for queuing data collection because of the following site characteristics that are similar to the proposed project:

- A Raising Cane's restaurant with a drive-through lane
- Located in Southern California
- Located in close proximity to a freeway

The drive-through activity was observed during the following times for the Raising Cane's sites on a typical weekday and Saturday:

- 11:00 AM 2:00 PM (lunchtime)
- 4:00 PM 7:00 PM (commute peak hour/dinnertime)

A copy of the drive-through queuing data collection worksheets is provided in *Appendix E*. The results of the observations are summarized in Table 8 and Table 9 for a typical weekday and Saturday, respectively. The data summaries in Tables 8 and 9 present the number of vehicles in the drive-through lane, broken down into 15-minute periods, based on the observed average queue, 85th percentile queue, and the peak queue for each of the data collection periods.

### **Drive-Through Queuing Observations**

The queuing activity was observed to vary with an ebb and flow pattern throughout the data collection periods. The following vehicle movement and queuing observations of the drive-through operations at the study locations were made:

### Orange Site

- The peak 15 minutes during the weekday lunch-time peak was from 12:45 PM to 1:00 PM, with an average queue of 10 vehicles and a peak queue of 12 vehicles.
- The peak 15 minutes during the weekday dinner-time peak was from 6:45 PM to 7:00 PM, with an average queue of 15 vehicles and a peak queue of 16 vehicles.
- The peak 15 minutes during the Saturday lunch-time peak was from 1:45 PM to 2:00 PM, with an average queue of 16 vehicles and a peak queue of 19 vehicles.
- The peak 15 minutes during the Saturday dinner-time peak was from 6:00 PM to 6:15 PM, with an average queue of 23 vehicles and a peak queue of 25 vehicles.

#### **Huntington Beach Site**

- The peak 15 minutes during the weekday lunch-time peak was from 12:15 PM to 12:45 PM, with an average queue of 9 vehicles and a peak queue of 14 vehicles.
- The peak 15 minutes during the weekday dinner-time peak was from 5:30 PM to 5:45 PM, with an average queue of 14 vehicles and a peak queue of 18 vehicles.
- The peak 15 minutes during the Saturday lunch-time peak was from 12:45 PM to 1:00 PM, with an average queue of 14 vehicles and a peak queue of 18 vehicles.

- 33 -

• The peak 15 minutes during the Saturday dinner-time peak was from 6:45 PM to 7:00 PM, with an average queue of 15 vehicles and a peak queue of 19 vehicles.

#### Foothill Ranch Site

- The peak 15 minutes during the weekday lunch-time peak was from 1:30 PM to 1:45 PM, with an average queue of 8 vehicles and a peak queue of 11 vehicles.
- The peak 15 minutes during the weekday dinner-time peak was from 6:30 PM to 6:45 PM, with an average queue of 16 vehicles and a peak queue of 21 vehicles.
- The peak 15 minutes during the Saturday lunch-time peak was from 1:15 PM to 1:30 PM, with an average queue of 20 vehicles and a peak queue of 23 vehicles.
- The peak 15 minutes during the Saturday dinner-time peak was from 5:15 PM to 5:30 PM, with an average queue of 20 vehicles and a peak queue of 23 vehicles.

#### **General Observations**

- At the Raising Cane's sites, spillovers outside the drive-through lane opening were observed to occur occasionally and to last briefly.
- On occasion, the spillover outside the drive-through lane was due to a delay at the order board, rather than a lack of capacity in the drive-through lane itself. A more-than-average delay at the order board (i.e., due to a large order, or indecisiveness on the part of the customer) would briefly hold up the movement of the queue, sometimes causing the remainder of the queue to extend beyond the drive-through lane opening. When the vehicle at the order board finished the ordering process and pulled forward, the remaining cars in the queue would once again move through the order and pick-up process at the normal pace, and the gap between the order board and the pick-up window would fill in.
- Some customers were observed to pull into the site; evaluate the wait time, based on the vehicle queue; and choose to park and go into the building, rather than join the existing queue.
- Based on the drive-through queuing data, the peak observed queue was 25 vehicles. The
  proposed site would have a drive-through queuing capacity of 27 vehicles; therefore, the
  proposed capacity would be able to accommodate the expected peak demand.

# TABLE 8 SUMMARY OF DRIVE-THROUGH QUEUING DATA COLLECTION RAISING CANE'S - TYPICAL WEEKDAY AVERAGE, 85TH PERCENTILE, AND PEAK QUEUES

				Number of Dr	ive-through Vehic	les in the Queue			
Time Period		Average Queue			85th %-ile 1 Queu	ie		Peak Queue	
	Orange	Huntington Beach	Foothill Ranch	Orange	Huntington Beach	Foothill Ranch	Orange	Huntington Beach	Foothill Rand
Lunch									
11:00-11:15 AM	6.4	1.7	1.1	8.0	3.0	2.0	8	3	3
11:15-11:30 AM	6.6	3.8	2.3	8.0	5.0	4.0	9	6	5
11:30-11:45 AM	5.0	3.4	4.0	5.5	4.2	4.0	7	7	6
11:45-12:00 PM	2.6	4.4	6.5	4.0	6.0	9.0	4	7	10
12:00-12:15 PM	6.4	5.0	4.3	7.5	7.0	6.0	8	8	7
12:15-12:30 PM	6.5	8.5	7.0	8.0	12.0	8.0	9	14	9
12:30-12:45 PM	4.8	4.9	7.3	8.2	7.2	9.0	9	9	10
12:45-1:00 PM	10.1	3.4	5.3	11.0	5.0	6.0	12	6	7
1:00-1:15 PM	7.0	7.9	4.2	9.0	10.0	10.0	9	11	7
1:15-1:30 PM	2.5	4.1	6.9	5.0	6.0	10.0	5	6	11
1:30-1:45 PM	4.4	5.1	8.3	6.7	7.0	10.0	7	9	11
1:45-2:00 PM	4.8	3.6	2.9	6.0	5.0	4.0	8	6	4
Highest Value	10.1	8.5	8.3	11.0	12.0	10.0	12	14	11
Dinner									
4:00-4:15 PM	1.5	4.8	2.5	2.3	6.0	3.0	3	7	5
4:15-4:30 PM	6.1	2.2	1.8	8.0	3.5	2.0	8	5	3
4:30-4:45 PM	8.0	2.6	2.5	9.3	5.0	4.0	10	6	5
4:45-5:00 PM	7.0	6.7	2.8	9.3	8.0	4.0	10	10	5
5:00-5:15 PM	6.0	4.7	3.5	7.0	6.2	5.0	8	7	5
5:15-5:30 PM	10.3	7.9	5.0	11.1	11.3	6.9	12	14	8
5:30-5:45 PM	9.4	14.1	10.7	11.0	16.2	14.9	11	18	16
5:45-6:00 PM	2.0	8.9	15.1	3.3	11.0	16.9	4	12	17
6:00-6:15 PM	7.8	8.0	15.8	10.8	11.0	17.0	12	12	19
6:15-6:30 PM	9.9	7.8	15.7	11.4	10.2	17.0	15	13	17
6:30-6:45 PM	13.2	10.5	15.5	14.3	12.0	18.0	15	14	21
6:45-7:00 PM	14.5	10.9	6.9	15.3	13.0	8.9	16	14	11
Highest Value	14.5	14.1	15.8	15.3	16.2	18.0	16	18	21

Notes: 185th percentile = The queue will be less than the queue shown 85% of the time.

# TABLE 9 SUMMARY OF DRIVE-THROUGH QUEUING DATA COLLECTION RAISING CANE'S - SATURDAY AVERAGE, 85TH PERCENTILE, AND PEAK QUEUES

				Number of Dr	ive-through Vehic	les in the Queue			
Time Period		Average Queue			85th %-ile 1 Queu	е		Peak Queue	
	Orange	Huntington Beach	Foothill Ranch	Orange	Huntington Beach	Foothill Ranch	Orange	Huntington Beach	Foothill Ranch
Lunch									
11:00-11:15 AM	3.3	0.9	2.3	4.0	1.1	3.9	4	2	4
11:15-11:30 AM	5.0	2.6	4.9	7.0	3.0	8.0	7	4	8
11:30-11:45 AM	2.1	1.8	8.7	3.0	3.6	11.0	4	4	12
11:45-12:00 PM	4.6	5.1	7.7	5.2	8.0	8.0	7	9	10
12:00-12:15 PM	7.7	9.2	11.5	9.0	10.0	14.0	10	10	15
12:15-12:30 PM	8.3	8.5	12.4	9.0	10.0	14.9	11	11	16
12:30-12:45 PM	6.9	5.4	12.8	8.0	6.6	14.0	8	9	15
12:45-1:00 PM	9.4	13.6	14.8	11.3	16.8	16.9	14	18	18
1:00-1:15 PM	13.8	13.7	16.1	16.7	16.0	20.0	18	16	19
1:15-1:30 PM	17.5	9.7	19.6	18.0	11.0	22.0	18	12	23
1:30-1:45 PM	15.3	7.2	15.5	17.1	8.0	16.9	18	9	19
1:45-2:00 PM	16.3	7.7	16.1	19.0	10.0	18.0	19	11	19
Highest Value	17.5	13.7	19.6	19.0	16.8	22.0	19	18	23
Dinner									
4:00-4:15 PM	14.7	7.3	2.7	17.8	10.0	4.0	20	11	6
4:15-4:30 PM	20.5	3.3	6.1	20.9	4.0	7.0	21	5	8
4:30-4:45 PM	18.7	2.6	7.5	19.0	4.0	9.0	19	7	10
4:45-5:00 PM	21.3	4.1	9.6	21.7	5.0	11.0	22	6	12
5:00-5:15 PM	21.0	6.4	14.3	22.8	9.3	17.0	24	10	18
5:15-5:30 PM	23.3	6.5	20.3	24.1	9.0	21.9	25	10	23
5:30-5:45 PM	23.0	10.6	16.4	23.7	13.0	19.9	24	15	20
5:45-6:00 PM	20.8	6.3	15.9	22.1	8.5	17.0	23	11	19
6:00-6:15 PM	23.3	7.5	15.1	24.4	11.0	17.9	25	12	19
6:15-6:30 PM	21.5	9.8	16.5	21.9	12.2	17.9	22	15	18
6:30-6:45 PM	21.3	14.4	16.5	21.7	16.0	18.0	22	18	18
6:45-7:00 PM	21.8	15.3	17.0	22.6	17.0	18.0	23	19	18
Highest Value	23.3	15.3	20.3	24.4	17.0	21.9	25	19	23

Notes: 185th percentile = The queue will be less than the queue shown 85% of the time.

# Side-by-Side Operational Features

The proposed side-by-side configuration would begin with one entry lane that splits into two drive-through lanes at the west side of the project site. Each drive-through lane would have its own order board. After the order boards, the two lanes would merge back into one lane for the pay and pick-up window.

While regular customers who are familiar with the menu choices typically would complete the order part of the process in less than the average time, infrequent or new customers are more likely to dwell at the menu board before making their choices, slowing down the process for everyone behind them. As a result, the order board is considered to be the most significant bottleneck in the drive-through process.

The side-by-side ordering configuration will increase the number of customers processed through the order board portion of the drive-through, and "keep the line moving" even if one customer takes a longer-than-average time to make their menu selections, allowing the restaurant to continue to take and complete orders from the other order lane. The newest customer to arrive at the drive-through entrance will naturally choose the empty lane or the shorter line, so that one customer who takes a longer time to order at one order board can be by-passed, thereby not holding up the entire drive-through line.

With the added efficiency of having two order boards and the ability to by-pass customers taking a longer-than-average time to order at the other order board, the service rate would increase, compared to a single order board, as more orders can be processed. The cooks would receive the orders at a more efficient rate, which allows them to continue cooking the food, rather than waiting for the slower customer to finish ordering.

Because of added efficiency in the cooking area, the efficiency at the pick-up window would increase, compared to a single drive-through lane, because the food would be processed by the cooking area at a more efficient rate.

#### Other Unique Features

Raising Cane's also implements hand-held ordering which involves an employee using a hand-held tablet to take orders and payments in the line ahead of the order window. Hand-held ordering can be executed with three to five employees during the peak time periods. Employees will "leapfrog" one another in the drive-through lane, allowing orders to come in twice as fast. Hand-held ordering ensures accuracy of orders, allows more time for the kitchen to prepare the order prior to the customer reaching the pick-up window, and removes the payment process at the window. This in turn decreases the amount of time customers spend at the payment and pick-up windows and increases the number of customers that can be processed in the drive-through line.

#### SITE ACCESS AND CIRCULATION

Vehicular access provisions to the project site would be provided via one existing right-in-right-out (RIRO) driveway on Roy Rogers Drive (East Driveway), one ¾ access (left turn out restricted) driveway on Roy Rogers Drive (West Driveway), and one existing full-movement driveway on Civic Drive. All project driveways would be unsignalized. Parking is access from the internal drive aisles. Vehicles have room to maneuver in and out of parking stalls and circulate internally to the site parking.

#### VEHICLE MILES TRAVELED (VMT) ANALYSIS

The City of Victorville *Vehicle Miles Traveled (VMT) Analysis Guidelines* (June 2020) provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed level analysis. Based on the City guidelines, a local-serving retail use less than 122,000 SF is presumed to have a less-than-significant VMT impact. As such, the City may presume the proposed project to have a less-than-significant VMT impact. Therefore, no further VMT analysis is required.

APPENDIX A

APPROVED SCOPING AGREEMENT



November 27, 2023

Anwar Wagdy, P.E. Engineering Department City of Victorville 14343 Civic Dr Victorville, CA 92392

RE: Traffic Scoping Letter Agreement for the Proposed Raising Cane's Project in the City of Victorville

Dear Mr. Wagdy:

Kimley-Horn and Associates, Inc. is submitting this Traffic Scoping Letter Agreement to the City of Victorville for the proposed Raising Cane's project in the City of Victorville. The proposed traffic scope for the project is presented below.

## PROJECT DESCRIPTION

The project site is located approximately 350 feet west of the intersection of Roy Rogers Drive and Civic Drive in the City of Victorville. The site is currently vacant land. The applicant proposes to develop an approximately 2,899 square-foot (SF) Raising Cane's restaurant building with drive-through. A copy of the project site plan is provided on **Attachment A**.

Vehicular access provisions to the project site would be provided via one right-in-right-out (RIRO) driveway on Roy Rogers Drive (East Project Driveway), one ¾ access (left turn out restricted) driveway on Roy Rogers Drive (West Project Driveway), and one full-movement driveway on Civic Drive. All project driveways would be unsignalized.

#### **JURISDICTIONAL REQUIREMENTS**

The traffic analysis will follow the City of Victorville General Guidelines for Conducting Traffic Studies and Determination of Intersection Level of Service and Improvement Needs (January 2005) and the San Bernardino County CMP Traffic Impact Analysis Report Guidelines (June 2016).

#### TRIP GENERATION

Trip generation estimates for the proposed use are based on the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (11<sup>th</sup> Edition) average rate for Fast-food Restaurant with Drive-Through (ITE Land Use 934). Pass-by reduction factors were applied based on the ITE <u>Trip Generation Manual</u> (11<sup>th</sup> Edition).



The trip generation rates and the resulting trip generation estimates for the proposed Raising Cane's project are summarized on **Attachment B**. The proposed project is estimated to generate 1,355 daily trips with 96 trips (50 inbound and 46 outbound) in the evening peak hour. After applying pass-by reduction factors, the proposed project would generate 982 net new trips on a daily basis with 43 trips (22 inbound and 21 outbound) in the evening peak hour.

#### TRIP DISTRIBUTION

Project distribution assumptions were developed based on existing travel patterns, and the likely origins and destinations of site employees and patrons. The project vicinity and trip distribution assumptions are shown on **Attachment C.** 

#### **STUDY AREA**

The following intersections will be analyzed for potential project-related effects:

- 1. Civic Drive at Roy Rogers Drive
- D1. Roy Rogers Drive at West Project Driveway
- D2. Roy Rogers Drive at East Project Driveway
- D3. Civic Drive at Project Driveway

#### **STUDY SCENARIOS**

- Existing Conditions
- Opening Year 2025 Conditions
- Opening Year 2025 Conditions Plus Project
- Future Year 2035 Conditions
- Future Year 2035 Conditions Plus Project

For Opening Year 2025 Conditions, a 2% annual ambient growth rate will be applied to existing traffic volumes up to Opening Year 2025 to develop Opening Year 2025 Conditions.

For Future Year 2035 Conditions, a 2% annual ambient growth rate will be applied to existing traffic volumes up to Future Year 2035. In addition to ambient growth, Cumulative Project traffic volumes will also be added to develop Future Year 2035 Conditions.



#### **VEHICLE MILES TRAVELED (VMT) APPROACH**

The project includes a 2,899 SF fast-food restaurant with drive-through. The City of Victorville does not have VMT guidelines, so analysis methodology will be consistent with the San Bernardino County *Transportation Impact Study Guidelines* (July 2019). Based on the County guidelines, a local-serving retail use less than 50,000 SF is presumed to have a less-than-significant VMT impact. As such, the City may presume the proposed project to have a less-than-significant VMT impact, and no further VMT analysis is required.

# **DRIVE-THROUGH QUEUING ANALYSIS**

A drive-through queuing analysis will be conducted for the proposed project, to evaluate the adequacy of the drive-through queuing capacity. The opening to the drive-through lane would be located at the west side of the project site and wraps around the west, south and east sides of the building in a counterclockwise direction before exiting on the northeast corner of the project site. The drive-through would provide one entry lane that splits into two lanes prior to the dual order boards, which would allow Raising Cane's to take orders from two customers at the same time. After the order boards, the two lanes would merge back into a single drive-through lane prior to the pay and pick-up window.

There will be approximately 300 feet of total queuing lane capacity (approximately 150 feet per lane) from the opening of the drive-through to the two order boards and approximately 120 feet from the order boards to the pay and pick-up window. This would provide a total drive-through queue length of approximately 420 feet, for a drive-through queuing capacity of 21 vehicles, assuming 20 feet per vehicle, from the beginning of the drive-through to the pick-up window.

During peak operations, the two drive-through lanes would not merge after the order boards, providing an additional pay and pick-up lane. The second pay and pick-up lane would provide an additional 120 feet of queue lane capacity, or 6 vehicles. This would provide a total drive-through queue length of approximately 540 feet for a drive-through queuing capacity of 27 vehicles, assuming 20 feet per vehicle.

Drive-through queuing will be compared to empirical data collected at the following Raising Cane's restaurants during the weekday and weekend lunch and dinner periods:

• City of Orange: 2249 N Tustin Street

City of Huntington Beach: 10142 Adams Avenue

City of Foothill Ranch: 26782 Portola Parkway



These sites were selected for queuing data collection because of the following site characteristics that are similar to the proposed project:

- A Raising Cane's restaurant with a drive-through lane
- Located in Southern California
- Located in close proximity to a freeway

Additionally, the drive-through queuing capacity of the project site will also be analyzed using queuing analysis formulas published in the Institute of Transportation Engineers (ITE) <u>Transportation Planning Handbook</u>, 3<sup>rd</sup> Edition.

Please contact me if you have any questions or comments.

Sincerely,

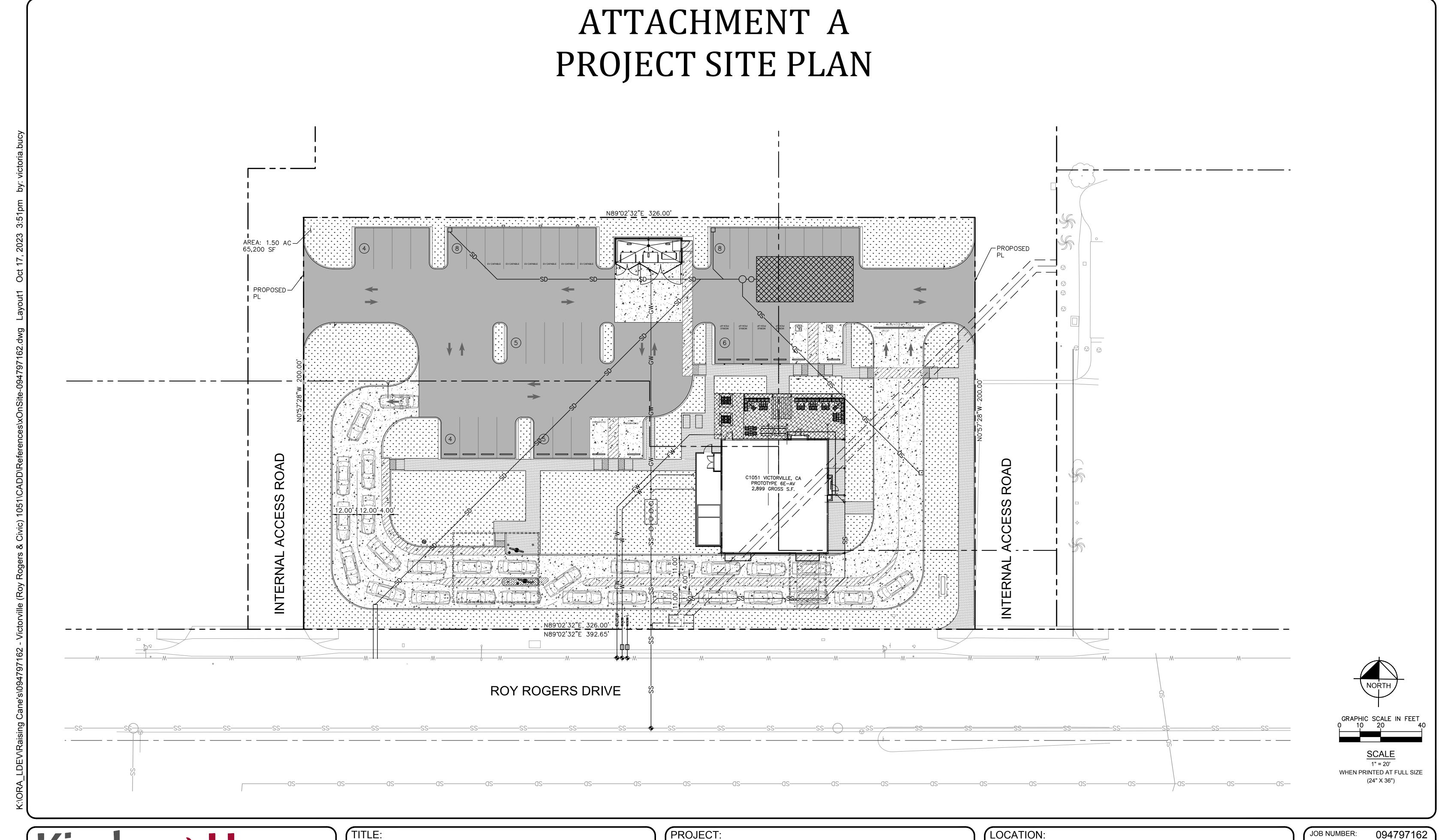
KIMLEY-HORN AND ASSOCIATES, INC.

Trevor Briggs, P.E. Project Engineer

**APPROVED:** 

By:

Anwar Wagdy, P.E. Engineering Department City of Victorville





SITE BASE

RC 1051 - VICTORVILLE

VICTORVILLE, CA (ROY ROGERS & CIVIC)

094797162
1" = 20'
10/17/2023
1 OF 1

# ATTACHMENT B SUMMARY OF PROJECT TRIP GENERATION VICTORVILLE RAISING CANE'S

					Trip Ge	neration	Rates <sup>1</sup>		
	ITE			AN	Л Peak Ho	our	P۱	/I Peak Ho	ur
Land Use	Code	Unit	Daily	In	Out	Total	In	Out	Total
Fast-Food Restaurant w/ Drive-thru	934	KSF	467.480	22.751	21.859	44.610	17.176	15.854	33.030

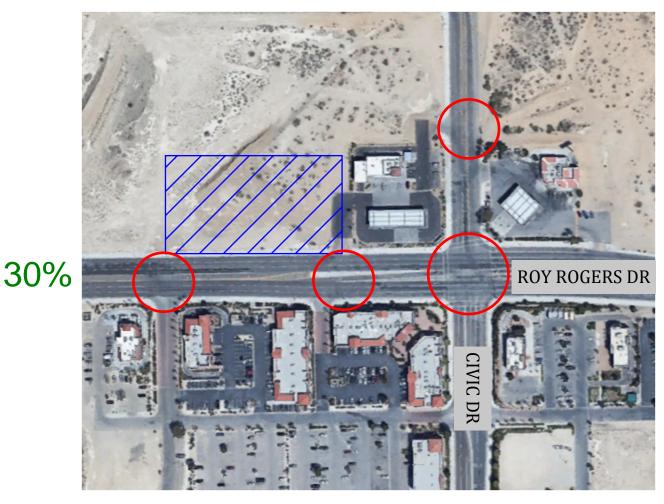
					Trip Gen	eration Es	stimates		
				ΑN	1 Peak Ho	ur³	PI	M Peak Ho	our
Land Use	Quantity	Unit	Daily	In	Out	Total	In	Out	Total
Fast-Food Restaurant w/ Drive-thru	2.899	KSF	1,355	-	-	-	50	46	96
Pass-by Trips (27.5% Daily, 0% AM, 55% PM) <sup>2</sup>			-373	-	-	-	-28	-25	-53
Net Trips			982	-	-	-	22	21	43
Total Project Trips			982	-	-	-	22	21	43

<sup>&</sup>lt;sup>1</sup> Source: Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u>, 11th Edition

<sup>&</sup>lt;sup>2</sup> Note: The <u>Trip Generation Manual</u> does not provide pass-by rates for daily trip generation. The daily pass-by percentage shown is the average between the AM and PM pass-by percentages.

<sup>&</sup>lt;sup>3</sup> Raising Cane's is not open during the AM Peak Hour

# ATTACHMENT C TRIP DISTRIBUTION AND STUDY AREA



10%

60%

# **LEGEND**:



**PROJECT SITE** 



STUDY INTERSECTION

XX% TRIP DISTRIBUTION PERCENTAGE

APPENDIX **B** 

TRAFFIC COUNT DATA COLLECTION SHEETS

# Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 (951) 268-6268

City of Victorville N/S: Civic Drive E/W: Roy Rogers Drive Weather: Clear

File Name: 01\_VIC\_Civic\_Roy PM Site Code: 231096 Start Date: 11/15/2023

Page No : 1

o Printed Total Valu

						(	<u>Groups</u>	Printed-	Total Vo	<u>olume</u>							
		Civio	Drive		F	Roy Ro	gers Dri	ive		Civio	Drive		F	Roy Ro	gers Dr	ive	
		South	bound			West	tbound			North	bound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	31	11	6	48	52	218	27	297	23	11	107	141	13	197	20	230	716
04:15 PM	24	9	4	37	69	208	36	313	22	17	87	126	9	175	20	204	680
04:30 PM	40	5	1	46	66	206	26	298	31	17	128	176	11	204	16	231	751
04:45 PM	18	5	5	28	60	237	16	313	22	15	90	127	11	200	12	223	691
Total	113	30	16	159	247	869	105	1221	98	60	412	570	44	776	68	888	2838
05:00 PM	29	4	6	39	62	206	32	300	26	22	132	180	10	151	15	176	695
05:15 PM	22	7	5	34	52	224	30	306	23	20	96	139	9	184	14	207	686
05:30 PM	26	4	3	33	52	189	21	262	24	13	97	134	12	146	15	173	602
05:45 PM	19	7	4	30	56	214	21	291	15	8	75_	98	10	130	10	150	569
Total	96	22	18	136	222	833	104	1159	88	63	400	551	41	611	54	706	2552
Grand Total	209	52	34	295	469	1702	209	2380	186	123	812	1121	85	1387	122	1594	5390
Apprch %	70.8	17.6	11.5		19.7	71.5	8.8		16.6	11	72.4		5.3	87	7.7		
Total %	3.9	1	0.6	5.5	8.7	31.6	3.9	44.2	3.5	2.3	15.1	20.8	1.6	25.7	2.3	29.6	

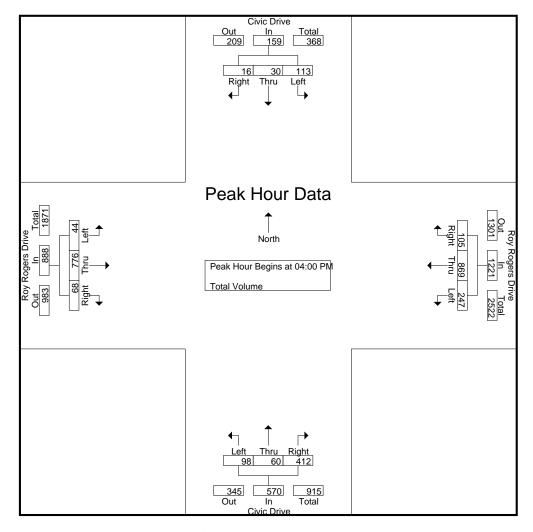
		Civio	Drive		F	Roy Ro	gers Dr	ive		Civid	Drive		F	Roy Ro	gers Dr	ive	
		South	nbound			West	tbound			North	nbound				tbound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04	:00 PM	to 05:45	PM - P	eak 1 d	of 1										
Peak Hour for	Entire I	ntersec	ction Be	gins at 0	4:00 PN	Л											
04:00 PM	31	11	6	48	52	218	27	297	23	11	107	141	13	197	20	230	716
04:15 PM	24	9	4	37	69	208	36	313	22	17	87	126	9	175	20	204	680
04:30 PM	40	5	1	46	66	206	26	298	31	17	128	176	11	204	16	231	751
04:45 PM	18	5	5	28	60	237	16	313	22	15	90	127	11	200	12	223	691
Total Volume	113	30	16	159	247	869	105	1221	98	60	412	570	44	776	68	888	2838
% App. Total	71.1	18.9	10.1		20.2	71.2	8.6		17.2	10.5	72.3		5	87.4	7.7		
PHF	.706	.682	.667	.828	.895	.917	.729	.975	.790	.882	.805	.810	.846	.951	.850	.961	.945

City of Victorville N/S: Civic Drive E/W: Roy Rogers Drive Weather: Clear

File Name: 01\_VIC\_Civic\_Roy PM

Site Code : 231096 Start Date : 11/15/2023

Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Ho	our for	Each	Αp	proach	Begins at:

Feak Hour lor	Lacii	ppioaci	i begin	s at.												
	04:00 PM				04:15 PN	1			04:30 PM	1			04:00 PM	I		
+0 mins.	31	11	6	48	69	208	36	313	31	17	128	176	13	197	20	230
+15 mins.	24	9	4	37	66	206	26	298	22	15	90	127	9	175	20	204
+30 mins.	40	5	1	46	60	237	16	313	26	22	132	180	11	204	16	231
+45 mins.	18	5	5	28	62	206	32	300	23	20	96	139	11	200	12	223
Total Volume	113	30	16	159	257	857	110	1224	102	74	446	622	44	776	68	888
% App. Total	71.1	18.9	10.1		21	70	9		16.4	11.9	71.7		5	87.4	7.7	
PHF	.706	.682	.667	.828	.931	.904	.764	.978	.823	.841	.845	.864	.846	.951	.850	.961

# Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 (951) 268-6268

City of Victorville N/S: Desert Sky Plaza West Driveway E/W: Roy Rogers Drive Weather: Clear

File Name: 04\_VIC\_SDP W\_Roy PM Site Code: 231096

Start Date : 11/15/2023

Page No : 1

Groups Printed- Total Volume

				roups Print	<u>ed-Total V</u>	olume				
	Ro	y Rogers D	rive	Desert Sky	/ Plaza Wes	st Driveway	Ro	y Rogers D	rive	
		Westbound	k		Northbound			Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	14	225	239	39	11	50	202	37	239	528
04:15 PM	10	238	248	26	15	41	198	29	227	516
04:30 PM	12	227	239	36	16	52	206	37	243	534
04:45 PM	12	252	264	27	18	45	198	28	226	535_
Total	48	942	990	128	60	188	804	131	935	2113
05:00 PM	16	221	237	26	13	39	178	26	204	480
05:15 PM	10	249	259	28	12	40	175	23	198	497
05:30 PM	9	214	223	27	10	37	172	27	199	459
05:45 PM	9	218	227	24	5	29	149	13	162	418
Total	44	902	946	105	40	145	674	89	763	1854
Grand Total	92	1844	1936	233	100	333	1478	220	1698	3967
Apprch %	4.8	95.2		70	30		87	13		
Total %	2.3	46.5	48.8	5.9	2.5	8.4	37.3	5.5	42.8	

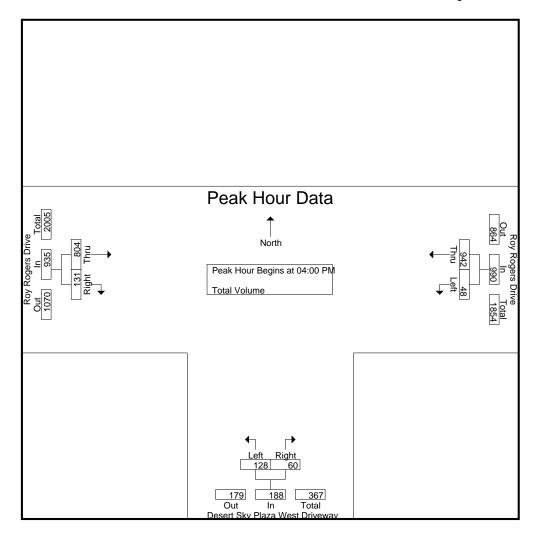
	Ro	y Rogers D	Prive	Desert Sk	ky Plaza We	st Driveway	Ro	y Rogers D	rive	
		Westbound	d		Northboun	d		Eastbound		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fr	om 04:00 P	M to 05:45	PM - Peak 1	of 1						
Peak Hour for Entire Ir	ntersection E	Begins at 04	1:00 PM							
04:00 PM	14	225	239	39	11	50	202	37	239	528
04:15 PM	10	238	248	26	15	41	198	29	227	516
04:30 PM	12	227	239	36	16	52	206	37	243	534
04:45 PM	12	252	264	27	18	45	198	28	226	535
Total Volume	48	942	990	128	60	188	804	131	935	2113
% App. Total	4.8	95.2		68.1	31.9		86	14		
PHF	.857	.935	.938	.821	.833	.904	.976	.885	.962	.987

City of Victorville N/S: Desert Sky Plaza West Driveway E/W: Roy Rogers Drive Weather: Clear

File Name: 04\_VIC\_SDP W\_Roy PM Site Code: 231096

Start Date : 11/15/2023

Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

I Galt Hoal I	or Edon / q	pproach begi	nio at.							
		04:30 PM			04:00 PM			04:00 PM		
	+0 mins.	12	227	239	39	11	50	202	37	239
-	+15 mins.	12	252	264	26	15	41	198	29	227
+	+30 mins.	16	221	237	36	16	52	206	37	243
	⊦45 mins.	10	249	259	27	18	45	198	28	226
Tota	al Volume	50	949	999	128	60	188	804	131	935
% A	pp. Total	5	95		68.1	31.9		86	14	
	PHF	.781	.941	.946	.821	.833	.904	.976	.885	.962

# Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 (951) 268-6268

City of Victorville N/S: Chevron DW/Desert Sky Plaza East DW E/W: Roy Rogers Drive Weather: Clear

File Name : 03\_VIC\_ChevDW\_Roy PM Site Code : 231096

Start Date : 11/15/2023

Page No : 1

Groups Printed- Total Volume

							<u>Jioups</u>	Filliteu-	i Olai Vi	Jiuiiie							
	С		Drivev	,	F		gers Dr tbound		Des	Driv	y Plaza ∕eway ∩bound	East	Roy Rogers Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	6	7	0	234	6	240	0	0	10	10	0	209	4	213	470
04:15 PM	0	0	8	8	0	240	3	243	1	0	15	16	0	202	7	209	476
04:30 PM	0	0	7	7	0	232	2	234	0	0	14	14	0	215	5	220	475
04:45 PM	0	0	6	6	0	260	3	263	2	0	19	21	0	206	6	212	502
Total	1	0	27	28	0	966	14	980	3	0	58	61	0	832	22	854	1923
05:00 PM	0	0	4	4	0	235	5	240	0	0	18	18	0	175	10	185	447
05:15 PM	0	0	7	7	0	253	5	258	0	0	17	17	0	182	9	191	473
05:30 PM	0	0	4	4	0	220	0	220	0	0	14	14	0	166	10	176	414
05:45 PM	0	0	3	3	0	228	0	228	1	0	11	12	0	138	12	150	393
Total	0	0	18	18	0	936	10	946	1	0	60	61	0	661	41	702	1727
Grand Total	1	0	45	46	0	1902	24	1926	4	0	118	122	0	1493	63	1556	3650
Apprch %	2.2	0	97.8		0	98.8	1.2		3.3	0	96.7		0	96	4		
Total %	0	0	1.2	1.3	0	52.1	0.7	52.8	0.1	0	3.2	3.3	0	40.9	1.7	42.6	

	С		Drivew bound	,	R		gers Dri tbound	ive	Des	Driv	y Plaza reway nbound	East	F	•	gers Dr tbound	ive	
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis Fı	rom 04:	:00 PM	to 05:45	PM - P	eak 1 d	of 1				_				_		
Peak Hour for	Entire In	ntersec	tion Be	gins at 0	4:00 PN	/											
04:00 PM	1	0	6	7	0	234	6	240	0	0	10	10	0	209	4	213	470
04:15 PM	0	0	8	8	0	240	3	243	1	0	15	16	0	202	7	209	476
04:30 PM	0	0	7	7	0	232	2	234	0	0	14	14	0	215	5	220	475
04:45 PM	0	0	6	6	0	260	3	263	2	0	19	21	0	206	6	212	502
Total Volume	1	0	27	28	0	966	14	980	3	0	58	61	0	832	22	854	1923
% App. Total	3.6	0	96.4		0	98.6	1.4		4.9	0	95.1		0	97.4	2.6		
PHF	.250	.000	.844	.875	.000	.929	.583	.932	.375	.000	.763	.726	.000	.967	.786	.970	.958

City of Victorville

N/S: Chevron DW/Desert Sky Plaza East DW

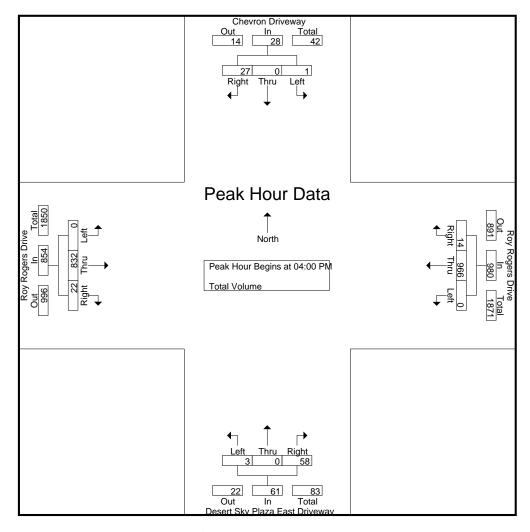
E/W: Roy Rogers Drive

Weather: Clear

File Name: 03\_VIC\_ChevDW\_Roy PM Site Code: 231096

Site Code : 231096 Start Date : 11/15/2023

Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

<u>Peak Hour for</u>	Each Ap	proach	Begins at:

I Cak Hour for		opioao.	. <u> </u>	<u> </u>												
	04:00 PM				04:30 PM	1			04:30 PN	1			04:00 PN			
+0 mins.	1	0	6	7	0	232	2	234	0	0	14	14	0	209	4	213
+15 mins.	0	0	8	8	0	260	3	263	2	0	19	21	0	202	7	209
+30 mins.	0	0	7	7	0	235	5	240	0	0	18	18	0	215	5	220
+45 mins.	0	0	6	6	0	253	5	258	0	0	17	17	0	206	6	212
Total Volume	1	0	27	28	0	980	15	995	2	0	68	70	0	832	22	854
% App. Total	3.6	0	96.4		0	98.5	1.5		2.9	0	97.1		0	97.4	2.6	
PHF	.250	.000	.844	.875	.000	.942	.750	.946	.250	.000	.895	.833	.000	.967	.786	.970

# Counts Unlimited, Inc. PO Box 1178 Corona, CA 92878 (951) 268-6268

City of Victorville N/S: Civic Drive E/W: Chevron Driveway

Weather: Clear

File Name: 02\_VIC\_Civic\_Chev DW PM Site Code: 231096 Start Date: 11/15/2023

Page No : 1

Groups Printed- Total Volume

							<u>Jioups</u>	Printeu-	i Olai Vi	Jiuiiie							
		Civio	Drive			7-11 D	)rivewa	y		Civio	c Drive		С	hevror	Drivev	vay	
		South	nbound			Westbound				North	hbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	3	19	4	26	16	0	3	19	12	29	11	52	4	0	12	16	113
04:15 PM	1	18	3	22	9	0	1	10	15	41	4	60	3	0	11	14	106
04:30 PM	1	28	2	31	9	0	4	13	9	42	4	55	1	0	8	9	108
04:45 PM	0	16	3	19	5	0	5	10	10	28	4	42	1	1	5	7	78
Total	5	81	12	98	39	0	13	52	46	140	23	209	9	1	36	46	405
05:00 PM	1	21	1	23	10	0	2	12	14	44	5	63	2	1	8	11	109
05:15 PM	1	17	3	21	5	0	4	9	11	41	8	60	0	0	13	13	103
05:30 PM	1	14	4	19	8	1	1	10	11	33	4	48	4	0	8	12	89
05:45 PM	1	15	4	20	7	1	2	10	14	19	5	38	2	1	9	12	80
Total	4	67	12	83	30	2	9	41	50	137	22	209	8	2	38	48	381
Grand Total	9	148	24	181	69	2	22	93	96	277	45	418	17	3	74	94	786
Apprch %	5	81.8	13.3		74.2	2.2	23.7		23	66.3	10.8		18.1	3.2	78.7		
Total %	1.1	18.8	3.1	23	8.8	0.3	2.8	11.8	12.2	35.2	5.7	53.2	2.2	0.4	9.4	12	

		Civic Drive				7-11 E	rivewa	У		Civid	Drive		O	hevror	Drivev	vay	
		South	bound			West	bound	-		North	nbound			East	bound		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Ana	alysis F	rom 04	:00 PM	to 05:45	PM - P												
Peak Hour for	Entire I	ntersec	tion Be	gins at 0	4:00 PN	Л											i
04:00 PM	3	19	4	26	16	0	3	19	12	29	11	52	4	0	12	16	113
04:15 PM	1	18	3	22	9	0	1	10	15	41	4	60	3	0	11	14	106
04:30 PM	1	28	2	31	9	0	4	13	9	42	4	55	1	0	8	9	108
04:45 PM	0	16	3	19	5	0	5	10	10	28	4	42	1	1	5	7	78
Total Volume	5	81	12	98	39	0	13	52	46	140	23	209	9	1	36	46	405
% App. Total	5.1	82.7	12.2		75	0	25		22	67	11		19.6	2.2	78.3		
PHF	.417	.723	.750	.790	.609	.000	.650	.684	.767	.833	.523	.871	.563	.250	.750	.719	.896

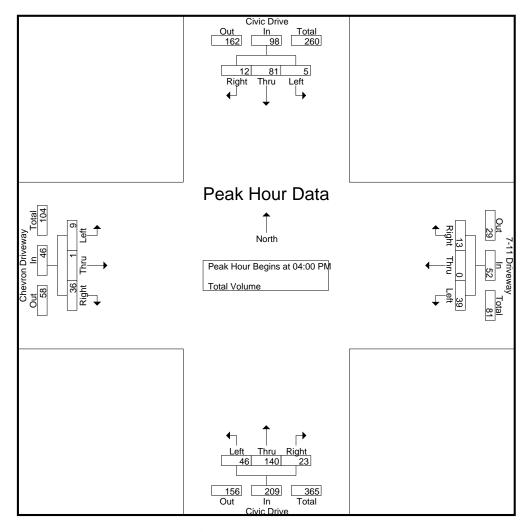
City of Victorville N/S: Civic Drive E/W: Chevron Driveway

Weather: Clear

File Name: 02\_VIC\_Civic\_Chev DW PM

Site Code : 231096 Start Date : 11/15/2023

Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

<u>Peak Hour for</u>	Each Ap	proach	Begins at:

I Call Hour for	Lucii / t	pprodo	i Dogini	o ut.												
	04:00 PM	1			04:00 PN	l			04:15 PM	Л			05:00 PM			
+0 mins.	3	19	4	26	16	0	3	19	15	41	4	60	2	1	8	11
+15 mins.	1	18	3	22	9	0	1	10	9	42	4	55	0	0	13	13
+30 mins.	1	28	2	31	9	0	4	13	10	28	4	42	4	0	8	12
+45 mins.	0	16	3	19	5	0	5	10	14	44	5	63	2	1	9	12
Total Volume	5	81	12	98	39	0	13	52	48	155	17	220	8	2	38	48
% App. Total	5.1	82.7	12.2		75	0	25		21.8	70.5	7.7		16.7	4.2	79.2	
PHF	.417	.723	.750	.790	.609	.000	.650	.684	.800	.881	.850	.873	.500	.500	.731	.923

APPENDIX C

INTERSECTION ANALYSIS WORKSHEETS

APPENDIX C-1

INTERSECTION ANALYSIS WORKSHEETS - EXISTING CONDITIONS



# Victorville Raising Cane's

Vistro File: K:\...\RC Victorville - PM.vistro

Report File: K:\...\EX PM.pdf

Scenario 1 EX 1/15/2024

# **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Civic Drive at Roy Rogers Drive	Signalized	HCM 7th Edition	EB Left	0.490	21.1	С
101	Roy Rogers Drive at West Driveway	Two-way stop	HCM 7th Edition	NB Left	0.725	78.3	F
102	Roy Rogers Drive at East Driveway	Two-way stop	HCM 7th Edition	SB Right	0.067	13.9	В
103	Civic Drive at Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.015	10.7	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



# Intersection Level Of Service Report Intersection 1: Civic Drive at Roy Rogers Drive

Control Type:SignalizedDelay (sec / veh):21.1Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.490

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	E	Eastbound	ł	V	Vestbound	d
Lane Configuration	+	alee			٦١٢		•	ıllŀ	,	٦	<u> </u>	Γ
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	2	0	1
Entry Pocket Length [ft]	200.00	100.00	195.00	145.00	100.00	100.00	230.00	100.00	100.00	285.00	100.00	200.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]		45.00			30.00			45.00			45.00	
Grade [%]	0.00				0.00			0.00			0.00	
Curb Present	No				No			No			No	
Crosswalk		Yes			Yes			Yes			No	

#### Volumes

Name												
Base Volume Input [veh/h]	98	60	412	113	30	16	44	776	68	247	869	105
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Proportion of CAVs [%]			-	•		0.	00					
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	60	412	113	30	16	44	776	68	247	869	105
Peak Hour Factor	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	16	109	30	8	4	12	205	18	65	230	28
Total Analysis Volume [veh/h]	104	63	436	120	32	17	47	821	72	261	920	111
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m	0				0			0			0	
v_co, Outbound Pedestrian Volume crossing	0				0			0			0	
v_ci, Inbound Pedestrian Volume crossing mi	0				0			0			0	
v_ab, Corner Pedestrian Volume [ped/h]	0				0			0			0	
Bicycle Volume [bicycles/h]		0			0			0			0	

## Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	8.00

## Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	3	8	8	7	4	0	5	2	0	1	6	6
Auxiliary Signal Groups			1,8									6,7
Lead / Lag	Lead	-	-									
Minimum Green [s]	5	10	10	5	10	0	5	10	0	5	10	10
Maximum Green [s]	14	29	29	14	29	0	5	26	0	5	26	26
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	14	29	29	18	33	0	14	30	0	13	29	29
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
Walk [s]	0	5	5	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	10	10	0	24	0	0	21	0	0	14	14
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
I2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No	No	No	No		No	No		No	No	No
Maximum Recall	No	No	No	No	No		No	No		No	No	No
Pedestrian Recall	No	No	No	No	No		No	No		No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

# **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

# **Lane Group Calculations**

Lane Group	L	С	R	L	С	С	L	С	С	L	С	R
C, Cycle Length [s]	90	90	90	90	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00
g_i, Effective Green Time [s]	7	10	23	8	11	11	3	47	47	9	53	65
g / C, Green / Cycle	0.07	0.11	0.26	0.09	0.12	0.12	0.04	0.52	0.52	0.10	0.59	0.72
(v / s)_i Volume / Saturation Flow Rate	0.06	0.03	0.15	0.07	0.01	0.01	0.03	0.17	0.17	0.08	0.18	0.07
s, saturation flow rate [veh/h]	1781	1870	2813	1781	1870	1662	1781	3560	1794	3459	5094	1589
c, Capacity [veh/h]	132	209	721	155	233	207	69	1864	939	346	2979	1138
d1, Uniform Delay [s]	40.96	36.74	29.46	40.23	34.97	35.00	42.71	12.26	12.27	39.43	9.46	3.90
k, delay calibration	0.11	0.11	0.21	0.11	0.11	0.11	0.11	0.50	0.50	0.11	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.82	0.80	1.61	8.03	0.20	0.25	11.24	0.45	0.90	3.36	0.27	0.17
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## Lane Group Results

•												
X, volume / capacity	0.79	0.30	0.60	0.78	0.11	0.12	0.68	0.32	0.32	0.75	0.31	0.10
d, Delay for Lane Group [s/veh]	50.78	37.54	31.08	48.26	35.17	35.25	53.95	12.71	13.17	42.78	9.73	4.07
Lane Group LOS	D	D	С	D	D	D	D	В	В	D	Α	Α
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	2.52	1.26	4.04	2.91	0.49	0.48	1.20	3.08	3.24	2.83	2.62	0.47
50th-Percentile Queue Length [ft/ln]	63.09	31.56	101.03	72.79	12.36	11.94	30.08	77.01	81.00	70.85	65.48	11.84
95th-Percentile Queue Length [veh/ln]	4.54	2.27	7.27	5.24	0.89	0.86	2.17	5.55	5.83	5.10	4.71	0.85
95th-Percentile Queue Length [ft/ln]	113.55	56.81	181.85	131.02	22.24	21.50	54.15	138.63	145.80	127.53	117.87	21.32

## Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	50.78 37.54 31.08		48.26	35.19	35.25	53.95	12.83	13.17	42.78	9.73	4.07	
Movement LOS	D	D D C		D	D	D	D	В	В	D	Α	Α
d_A, Approach Delay [s/veh]		35.15			44.47			14.91		15.92		
Approach LOS	D				D		В			В		
d_I, Intersection Delay [s/veh]						21	.07					
Intersection LOS		С										
Intersection V/C	0.490											

#### Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	36.45	36.45	0.00
I_p,int, Pedestrian LOS Score for Intersectio	2.690	2.228	3.009	0.000
Crosswalk LOS	В	В	С	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	556	644	578	556
d_b, Bicycle Delay [s]	23.47	20.67	22.76	23.47
I_b,int, Bicycle LOS Score for Intersection	2.555	1.699	2.077	2.270
Bicycle LOS	В	A	В	В

# Sequence

•					_											
Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





# Intersection Level Of Service Report Intersection 101: Roy Rogers Drive at West Driveway

Control Type:Two-way stopDelay (sec / veh):78.3Analysis Method:HCM 7th EditionLevel Of Service:FAnalysis Period:15 minutesVolume to Capacity (v/c):0.725

#### Intersection Setup

Name								
Approach	North		Eastbound		Westbound			
Lane Configuration	+		ᆌ		чШ			
Turning Movement	Left	Right	U-turn	Thru	Right	Left	Thru	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	0 0		1	0	0	1	0	
Entry Pocket Length [ft]	100.00	100.00	385.00	100.00	100.00	150.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	0.00	30.00			30.00		
Grade [%]	0	.00		0.00		0.00		
Crosswalk	Y	'es	No			No		

#### Volumes

Name							
Base Volume Input [veh/h]	128	60	0	804	131	48	942
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	128	60	0	804	131	48	942
Peak Hour Factor	0.9870	0.9870	1.0000	0.9870	0.9870	0.9870	0.9870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	32	15	0	204	33	12	239
Total Analysis Volume [veh/h]	130	61	0	815	133	49	954
Pedestrian Volume [ped/h]	(	)		0		0	



## Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

## Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.72	0.13	0.00	0.01	0.00	0.12	0.01	
d_M, Delay for Movement [s/veh]	78.31	66.08	10.57	0.00	0.00	14.84	0.00	
Movement LOS	F	F	В	Α	А	В	A	
95th-Percentile Queue Length [veh/ln]	6.71	6.71	0.00	0.00	0.00	0.40	0.00	
95th-Percentile Queue Length [ft/ln]	167.81	167.81	0.00	0.00	0.00	9.96	0.00	
d_A, Approach Delay [s/veh]	74.	41		0.00		0.	73	
Approach LOS	F	=		Α		A	4	
d_I, Intersection Delay [s/veh]	6.97							
Intersection LOS	F							

Victorville Raising Cane's Scenario 1: 1 EX



# Intersection Level Of Service Report Intersection 102: Roy Rogers Drive at East Driveway

Control Type:Two-way stopDelay (sec / veh):13.9Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.067

#### Intersection Setup

Name							
Approach	Southbound Eastbound				West	tbound	
Lane Configuration	Г	-	1		IIF		
Turning Movement	Left	Right	Left	Thru	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	0	0 0		0	0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	0.00	30.00		30.00		
Grade [%]	0.	.00	0	.00	0.00		
Crosswalk	Y	'es	1	No	No		

#### Volumes

Name						
Base Volume Input [veh/h]	0	28	0	832	966	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	28	0	832	966	14
Peak Hour Factor	1.0000	0.9580	1.0000	0.9580	0.9580	0.9580
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	7	0	217	252	4
Total Analysis Volume [veh/h]	0	29	0	868	1008	15
Pedestrian Volume [ped/h]	0		0		0	



## Intersection Settings

Priority Scheme	Stop	Free	Free	
Flared Lane				
Storage Area [veh]	0	0	0	
Two-Stage Gap Acceptance	No			
Number of Storage Spaces in Median	0	0	0	

## Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.07	0.00	0.01	0.01	0.00		
d_M, Delay for Movement [s/veh]	0.00	13.88	0.00	0.00	0.00	0.00		
Movement LOS		В		А	A	A		
95th-Percentile Queue Length [veh/ln]	0.00	0.21	0.00	0.00	0.00	0.00		
95th-Percentile Queue Length [ft/ln]	0.00	5.34	0.00	0.00	0.00	0.00		
d_A, Approach Delay [s/veh]	13.88		0.00		0.00			
Approach LOS	В		A		A			
d_I, Intersection Delay [s/veh]	0.21							
Intersection LOS	В							

Victorville Raising Cane's Scenario 1: 1 EX

# Intersection Level Of Service Report Intersection 103: Civic Drive at Project Driveway

Control Type:Two-way stopDelay (sec / veh):10.7Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.015

#### Intersection Setup

Name							
Approach	North	bound	South	nbound	East	bound	
Lane Configuration	٦	1	1	H	Ŧ		
Turning Movement	Left	Thru	Thru	Right	Left	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1	0	0	0	0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	.00	30	0.00	30.00		
Grade [%]	0.	00	0.	.00	0.00		
Crosswalk	N	lo	1	No	Yes		

Name						
Base Volume Input [veh/h]	46	153	86	12	9	37
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	46	153	86	12	9	37
Peak Hour Factor	0.8960	0.8960	0.8960	0.8960	0.8960	0.8960
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	43	24	3	3	10
Total Analysis Volume [veh/h]	51 171		96	13	10	41
Pedestrian Volume [ped/h]	(	)	(	)	(	)



### Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

### Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.00	0.00	0.00	0.02	0.04
d_M, Delay for Movement [s/veh]	7.52	0.00	0.00	0.00	10.74	8.83
Movement LOS	Α	А	Α	Α	В	А
95th-Percentile Queue Length [veh/ln]	0.11	0.00	0.00	0.00	0.18	0.18
95th-Percentile Queue Length [ft/ln]	2.68	0.00	0.00	0.00	4.46	4.46
d_A, Approach Delay [s/veh]	1.	73	0.	00	9.:	21
Approach LOS	A	4	,	A	Į.	4
d_I, Intersection Delay [s/veh]			2.	23		
Intersection LOS				3		

Victorville Raising Cane's Scenario 1: 1 EX

APPENDIX C-2

INTERSECTION ANALYSIS WORKSHEETS -OPENING YEAR 2025



## Victorville Raising Cane's

Vistro File: K:\...\RC Victorville - PM.vistro

Report File: K:\...\OY 25 PM.pdf

Scenario 2 OY 25 1/15/2024

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Civic Drive at Roy Rogers Drive	Signalized	HCM 7th Edition	EB Left	0.509	21.4	С
101	Roy Rogers Drive at West Driveway	Two-way stop	HCM 7th Edition	NB Left	0.812	103.0	F
102	Roy Rogers Drive at East Driveway	Two-way stop	HCM 7th Edition	SB Right	0.071	14.2	В
103	Civic Drive at Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.016	10.9	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



# Intersection Level Of Service Report Intersection 1: Civic Drive at Roy Rogers Drive

Control Type:SignalizedDelay (sec / veh):21.4Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.509

#### Intersection Setup

Name													
Approach	١	lorthboun	d	s	Southbound			Eastbound			Westbound		
Lane Configuration	+	TIPP			٦lb			1   <u> </u>	•	חווור			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	2	0	1	
Entry Pocket Length [ft]	200.00	100.00	195.00	145.00	100.00	100.00	230.00	100.00	100.00	285.00	100.00	200.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]		45.00			30.00			45.00		45.00			
Grade [%]		0.00			0.00		0.00			0.00			
Curb Present		No			No		No			No			
Crosswalk		Yes			Yes		Yes			No			

Name												
Base Volume Input [veh/h]	98	60	412	113	30	16	44	776	68	247	869	105
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Proportion of CAVs [%]			-			0.	00					
Growth Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	102	62	428	118	31	17	46	807	71	257	904	109
Peak Hour Factor	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	27	16	113	31	8	4	12	213	19	68	239	29
Total Analysis Volume [veh/h]	108	66	453	125	33	18	49	854	75	272	957	115
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing		0			0			0			0	
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]		0			0			0			0	
Bicycle Volume [bicycles/h]		0		·	0	•		0	•		0	

## Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	8.00

## Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	3	8	8	7	4	0	5	2	0	1	6	6
Auxiliary Signal Groups			1,8									6,7
Lead / Lag	Lead	-	-									
Minimum Green [s]	5	10	10	5	10	0	5	10	0	5	10	10
Maximum Green [s]	14	29	29	14	29	0	5	26	0	5	26	26
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	14	29	29	18	33	0	14	30	0	13	29	29
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
Walk [s]	0	5	5	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	10	10	0	24	0	0	21	0	0	14	14
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
l2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No	No	No	No		No	No		No	No	No
Maximum Recall	No	No	No	No	No		No	No		No	No	No
Pedestrian Recall	No	No	No	No	No		No	No		No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

## **Lane Group Calculations**

Lane Group	L	С	R	L	С	С	L	С	С	L	С	R
C, Cycle Length [s]	90	90	90	90	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00
g_i, Effective Green Time [s]	7	10	23	8	11	11	4	47	47	9	52	64
g / C, Green / Cycle	0.08	0.11	0.26	0.09	0.13	0.13	0.04	0.52	0.52	0.10	0.58	0.72
(v / s)_i Volume / Saturation Flow Rate	0.06	0.04	0.16	0.07	0.01	0.02	0.03	0.17	0.17	0.08	0.19	0.07
s, saturation flow rate [veh/h]	1781	1870	2813	1781	1870	1659	1781	3560	1794	3459	5094	1589
c, Capacity [veh/h]	137	210	723	161	235	209	71	1850	932	346	2953	1136
d1, Uniform Delay [s]	40.82	36.75	29.62	40.05	34.88	34.92	42.66	12.56	12.58	39.56	9.79	3.96
k, delay calibration	0.11	0.11	0.23	0.11	0.11	0.11	0.11	0.50	0.50	0.11	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.59	0.84	1.92	7.84	0.21	0.25	11.36	0.49	0.97	3.98	0.29	0.18
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### Lane Group Results

•												
X, volume / capacity	0.79	0.31	0.63	0.78	0.11	0.12	0.69	0.33	0.33	0.79	0.32	0.10
d, Delay for Lane Group [s/veh]	50.41	37.59	31.54	47.90	35.09	35.17	54.02	13.05	13.55	43.54	10.08	4.13
Lane Group LOS	D	D	С	D	D	D	D	В	В	D	В	Α
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	2.61	1.32	4.25	3.02	0.51	0.50	1.25	3.27	3.44	2.99	2.80	0.50
50th-Percentile Queue Length [ft/ln]	65.22	33.12	106.27	75.51	12.86	12.41	31.35	81.70	85.89	74.65	69.89	12.41
95th-Percentile Queue Length [veh/ln]	4.70	2.38	7.63	5.44	0.93	0.89	2.26	5.88	6.18	5.37	5.03	0.89
95th-Percentile Queue Length [ft/ln]	117.39	59.61	190.80	135.92	23.16	22.33	56.43	147.07	154.60	134.37	125.80	22.34

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	50.41	37.59	31.54	47.90	35.10	35.17	54.02	13.19	13.55	43.54	10.08	4.13
Movement LOS	D	D	С	D	D	D	D	В	В	D	В	Α
d_A, Approach Delay [s/veh]		35.43			44.20		15.26			16.34		
Approach LOS		D			D		В			В		
d_I, Intersection Delay [s/veh]						21	.40					
Intersection LOS		С										
Intersection V/C						0.5	09					

#### Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	36.45	36.45	0.00
I_p,int, Pedestrian LOS Score for Intersectio	2.700	2.232	3.026	0.000
Crosswalk LOS	В	В	С	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	556	644	578	556
d_b, Bicycle Delay [s]	23.47	20.67	22.76	23.47
I_b,int, Bicycle LOS Score for Intersection	2.594	1.705	2.098	2.299
Bicycle LOS	В	A	В	В

## Sequence

•					_											
Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Intersection Level Of Service Report Intersection 101: Roy Rogers Drive at West Driveway

Control Type:Two-way stopDelay (sec / veh):103.0Analysis Method:HCM 7th EditionLevel Of Service:FAnalysis Period:15 minutesVolume to Capacity (v/c):0.812

#### Intersection Setup

Name						
Approach	North	Northbound		Eastbound		bound
Lane Configuration	₩.		11	F	7111	
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0 0		1	0	1	0
Entry Pocket Length [ft]	100.00	100.00	385.00	100.00	150.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30.00		30	0.00	30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Y	es	No		No	

Name						
Base Volume Input [veh/h]	128	60	804	131	48	942
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	133	62	836	136	50	980
Peak Hour Factor	0.9870	0.9870	0.9870	0.9870	0.9870	0.9870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	34	16	212	34	13	248
Total Analysis Volume [veh/h]	135	63	847	138	51	993
Pedestrian Volume [ped/h]	(	)	(	)	(	)



### Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

### Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.81	0.14	0.01	0.00	0.13	0.01	
d_M, Delay for Movement [s/veh]	102.96	89.36	0.00	0.00	15.37	0.00	
Movement LOS	F	F	Α	A	С	А	
95th-Percentile Queue Length [veh/ln]	8.03	8.03	0.00	0.00	0.44	0.00	
95th-Percentile Queue Length [ft/ln]	200.73	200.73	0.00	0.00	10.91	0.00	
d_A, Approach Delay [s/veh]	98	.63	0.	00	0.75		
Approach LOS	F	=	,	4	Į.	4	
d_I, Intersection Delay [s/veh]	9.12						
Intersection LOS				F			

# Intersection Level Of Service Report Intersection 102: Roy Rogers Drive at East Driveway

Control Type:Two-way stopDelay (sec / veh):14.2Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.071

#### Intersection Setup

Name						
Approach	South	Southbound		Eastbound		tbound
Lane Configuration	Г	r			IIF	
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]	30	30.00		30.00		0.00
Grade [%]	0.	0.00		0.00		.00
Crosswalk	Y	'es	1	No		No

Name						
Base Volume Input [veh/h]	0	28	0	832	966	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0400	1.0000	1.0400	1.0400	1.0400
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	29	0	865	1005	15
Peak Hour Factor	1.0000	0.9580	1.0000	0.9580	0.9580	0.9580
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	8	0	226	262	4
Total Analysis Volume [veh/h]	0	30	0	903	1049	16
Pedestrian Volume [ped/h]		0		0	(	)



### Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

### Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.07	0.00	0.01	0.01	0.00		
d_M, Delay for Movement [s/veh]	0.00	14.21	0.00	0.00	0.00	0.00		
Movement LOS		В		A	A	A		
95th-Percentile Queue Length [veh/ln]	0.00	0.23	0.00	0.00	0.00	0.00		
95th-Percentile Queue Length [ft/ln]	0.00	5.73	0.00	0.00	0.00	0.00		
d_A, Approach Delay [s/veh]	14	.21	0	.00	00			
Approach LOS	I	3		A	,	4		
d_I, Intersection Delay [s/veh]	0.21							
Intersection LOS	В							

# Intersection Level Of Service Report Intersection 103: Civic Drive at Project Driveway

Control Type:Two-way stopDelay (sec / veh):10.9Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.016

#### Intersection Setup

Name							
Approach	North	Northbound		Southbound		bound	
Lane Configuration	ηİ		1	H	Ŧ		
Turning Movement	Left	Thru	Thru	Right	Left	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1 0		0	0	0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30.00		30	0.00	30.00		
Grade [%]	0.00		0.00		0.00		
Crosswalk	N	lo	No		Yes		

Name							
Base Volume Input [veh/h]	46	153	86	12	9	37	
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	
Growth Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	
In-Process Volume [veh/h]	0	0	0	0	0	0	
Site-Generated Trips [veh/h]	0	0	0	0	0	0	
Diverted Trips [veh/h]	0	0	0	0	0	0	
Pass-by Trips [veh/h]	0	0	0	0	0	0	
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	
Other Volume [veh/h]	0	0	0	0	0	0	
Total Hourly Volume [veh/h]	48	159	89	12	9	38	
Peak Hour Factor	0.8960	0.8960	0.8960	0.8960	0.8960	0.8960	
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Total 15-Minute Volume [veh/h]	13	44	25	3	3	11	
Total Analysis Volume [veh/h]	54 177		99	13	10	42	
Pedestrian Volume [ped/h]	Pedestrian Volume [ped/h]			0	0		



### Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

## Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04 0.00		0.00	0.00	0.02	0.04			
d_M, Delay for Movement [s/veh]	7.53 0.00		0.00	0.00		8.85			
Movement LOS	Α	A	А	Α	В	Α			
95th-Percentile Queue Length [veh/ln]	0.11	0.00	0.00	0.00	0.18	0.18			
95th-Percentile Queue Length [ft/ln]	2.85	0.00	0.00	0.00	4.58	4.58			
d_A, Approach Delay [s/veh]	1.	76	0.	00	9.2	24			
Approach LOS	/	4	,	A	A	4			
d_I, Intersection Delay [s/veh]	2.25								
Intersection LOS	В								

APPENDIX C-3

INTERSECTION ANALYSIS
WORKSHEETS OPENING YEAR 2025 PLUS PROJECT



## Victorville Raising Cane's

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Scenario 3 OY 25 WP 1/15/2024

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Civic Drive at Roy Rogers Drive	Signalized	HCM 7th Edition	EB Left	0.576	26.9	O
101	Roy Rogers Drive at West Driveway	Two-way stop	HCM 7th Edition	NB Right	0.432	19.0	С
102	Roy Rogers Drive at East Driveway	Two-way stop	HCM 7th Edition	SB Right	0.098	14.6	В
103	Civic Drive at Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.018	12.0	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



# Intersection Level Of Service Report Intersection 1: Civic Drive at Roy Rogers Drive

Control Type:SignalizedDelay (sec / veh):26.9Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.576

#### Intersection Setup

Name													
Approach	١	lorthboun	d	S	Southbound			Eastbound			Westbound		
Lane Configuration	+	าไทท			чIР			7111			חווור		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	2	0	1	
Entry Pocket Length [ft]	200.00	100.00	195.00	145.00	100.00	100.00	230.00	100.00	100.00	285.00	100.00	200.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]		45.00			30.00		45.00			45.00			
Grade [%]		0.00			0.00		0.00				0.00		
Curb Present		No			No		No			No			
Crosswalk		Yes			Yes		Yes			No			



98	60	412	113	30	16	44	776	68	247	869	105
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
0.00											
1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	13	2	0	0	0	0	0	10	3
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	10	0	0	11	-11	0	0	0	0
0	0	0	0	0	0	128	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
104	62	428	141	33	17	185	796	71	257	914	112
0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
28	16	113	37	9	4	49	211	19	68	242	30
110	66	453	149	35	18	196	842	75	272	967	119
No		No	No		No	No		No	No		No
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
	0			0			0			0	
	0			0			0			0	
0			0			0			0		
0			0		0			0			
0			0			0			0		
	0		·	0		·	0	•		0	
1.	00000   2.00   0   0   0   0   0   0   0   0   0	00000 1.0000 2.00 2.00  0400 1.0400 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 104 62 9450 0.9450 0000 1.0000 28 16 110 66 No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000   1	1.0000   1	1.0000   1	1.0000   1

## Intersection Settings

Located in CBD	No	
Signal Coordination Group	•	
Cycle Length [s]	90	
Active Pattern	Pattern 1	
Coordination Type	Time of Day Pattern Coordinated	
Actuation Type	Semi-actuated	
Offset [s]	0.0	
Offset Reference	Lead Green - Beginning of First Green	
Permissive Mode	SingleBand	
Lost time [s]	8.00	

### Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	3	8	8	7	4	0	5	2	0	1	6	6
Auxiliary Signal Groups			1,8									6,7
Lead / Lag	Lead	-	-									
Minimum Green [s]	5	10	10	5	10	0	5	10	0	5	10	10
Maximum Green [s]	14	29	29	14	29	0	5	26	0	5	26	26
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	14	29	29	18	33	0	14	30	0	13	29	29
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
Walk [s]	0	5	5	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	10	10	0	24	0	0	21	0	0	14	14
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
l2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No	No	No	No		No	No		No	No	No
Maximum Recall	No	No	No	No	No		No	No		No	No	No
Pedestrian Recall	No	No	No	No	No		No	No		No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

## **Lane Group Calculations**

Lane Group	L	С	R	L	С	С	L	С	С	L	С	R
C, Cycle Length [s]	90	90	90	90	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00
g_i, Effective Green Time [s]	7	10	23	9	12	12	10	46	46	9	45	58
g / C, Green / Cycle	0.08	0.11	0.26	0.10	0.14	0.14	0.11	0.51	0.51	0.10	0.49	0.64
(v / s)_i Volume / Saturation Flow Rate	0.06	0.04	0.16	0.08	0.01	0.02	0.11	0.17	0.17	0.08	0.19	0.07
s, saturation flow rate [veh/h]	1781	1870	2813	1781	1870	1666	1781	3560	1793	3459	5094	1589
c, Capacity [veh/h]	139	210	723	187	260	231	198	1798	906	346	2516	1022
d1, Uniform Delay [s]	40.75	36.75	29.62	39.36	33.86	33.89	39.95	13.30	13.31	39.56	14.22	6.19
k, delay calibration	0.11	0.11	0.23	0.11	0.11	0.11	0.36	0.50	0.50	0.11	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.52	0.84	1.92	7.63	0.17	0.21	52.17	0.51	1.02	3.98	0.45	0.23
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### Lane Group Results

X, volume / capacity	0.79	0.31	0.63	0.80	0.10	0.11	0.99	0.34	0.34	0.79	0.38	0.12
d, Delay for Lane Group [s/veh]	50.27	37.59	31.54	46.99	34.03	34.10	92.12	13.81	14.32	43.54	14.67	6.43
Lane Group LOS	D	D	С	D	С	С	F	В	В	D	В	Α
Critical Lane Group	No	No	Yes	Yes	No	No	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	2.65	1.32	4.25	3.57	0.53	0.50	6.98	3.36	3.52	2.99	3.71	0.75
50th-Percentile Queue Length [ft/In]	66.31	33.12	106.27	89.16	13.14	12.62	174.41	83.98	87.99	74.65	92.78	18.82
95th-Percentile Queue Length [veh/ln]	4.77	2.38	7.63	6.42	0.95	0.91	11.31	6.05	6.34	5.37	6.68	1.35
95th-Percentile Queue Length [ft/ln]	119.36	59.61	190.80	160.49	23.65	22.71	282.71	151.16	158.38	134.37	167.00	33.87

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	50.27	37.59	31.54	46.99	34.05	34.10	92.12	13.95	14.32	43.54	14.67	6.43	
Movement LOS	D	D	С	D	С	С	F	В	В	D	В	Α	
d_A, Approach Delay [s/veh]		35.45			43.60			27.74			19.73		
Approach LOS	D			D			С				В		
d_I, Intersection Delay [s/veh]						26	.89						
Intersection LOS	С												
Intersection V/C	0.576												

#### Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	36.45	36.45	0.00
I_p,int, Pedestrian LOS Score for Intersectio	2.701	2.275	3.057	0.000
Crosswalk LOS	В	В	С	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	556	644	578	556
d_b, Bicycle Delay [s]	23.47	20.67	22.76	23.47
I_b,int, Bicycle LOS Score for Intersection	2.597	1.726	2.172	2.307
Bicycle LOS	В	A	В	В

## Sequence

•					_											
Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	1	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Intersection Level Of Service Report Intersection 101: Roy Rogers Drive at West Driveway

Control Type:Two-way stopDelay (sec / veh):19.0Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.432

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	outhboun	d	E	Eastbound	ł	Westbound		
Lane Configuration		+			r		7  F			7    <del>-</del>		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	385.00	100.00	100.00	150.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]		30.00			30.00	-	30.00			30.00		
Grade [%]	0.00		0.00		0.00			0.00				
Crosswalk		Yes		Yes		No			No			

Name												
Base Volume Input [veh/h]	128	0	60	0	0	0	0	804	131	48	942	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0400	1.0400	1.0000	1.0000	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	3	7	0	0	0	3	3
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	8	0	0	0	0	-1	8
Existing Site Adjustment Volume [veh/h]	-128	0	128	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	190	0	0	11	7	836	136	50	982	11
Peak Hour Factor	0.9870	0.9870	0.9870	1.0000	1.0000	0.9870	0.9870	0.9870	0.9870	0.9870	0.9870	0.9870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	48	0	0	3	2	212	34	13	249	3
Total Analysis Volume [veh/h]	0	0	193	0	0	11	7	847	138	51	995	11
Pedestrian Volume [ped/h]		0		0			0			0		



### Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No			
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

### Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.43	0.00	0.00	0.03	0.02	0.01	0.00	0.13	0.01	0.00
d_M, Delay for Movement [s/veh]	41.39	86.05	19.05	0.00	0.00	13.40	14.43	0.00	0.00	15.37	0.00	0.00
Movement LOS	Е	F	С			В	В	Α	Α	С	Α	Α
95th-Percentile Queue Length [veh/ln]	2.14	2.14	2.14	0.00	0.00	0.08	0.05	0.00	0.00	0.44	0.00	0.00
95th-Percentile Queue Length [ft/ln]	53.44	53.44	53.44	0.00	0.00	1.92	1.37	0.00	0.00	10.91	0.00	0.00
d_A, Approach Delay [s/veh]		19.05		13.40			0.10				0.74	
Approach LOS		С			В А						Α	
d_I, Intersection Delay [s/veh]		2.09										
Intersection LOS		С										

# Intersection Level Of Service Report Intersection 102: Roy Rogers Drive at East Driveway

Control Type:Two-way stopDelay (sec / veh):14.6Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.098

#### Intersection Setup

Name							
Approach	South	nbound	East	bound	Westbound		
Lane Configuration	Г	-	1		IIF		
Turning Movement	Left	Right	Left	Thru	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	0	0	0	0	0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	30.00		30.00		0.00	
Grade [%]	0.00		0	.00	0.00		
Crosswalk	Yes		1	No	No		

Name						
Base Volume Input [veh/h]	0	28	0	832	966	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0400	1.0000	1.0400	1.0400	1.0400
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	3	0	0	3	9
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	7	0	0	-9	9
Existing Site Adjustment Volume [veh/h]	0	0	0	128	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	39	0	993	999	33
Peak Hour Factor	1.0000	0.9580	1.0000	0.9580	0.9580	0.9580
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	10	0	259	261	9
Total Analysis Volume [veh/h]	0	41	0	1037	1043	34
Pedestrian Volume [ped/h]		0		0	0	



### Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

## Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.10	0.00	0.01	0.01	0.00	
d_M, Delay for Movement [s/veh]	0.00	14.57	0.00	0.00	0.00	0.00	
Movement LOS		В		A	A	A	
95th-Percentile Queue Length [veh/ln]	0.00	0.32	0.00	0.00	0.00	0.00	
95th-Percentile Queue Length [ft/ln]	0.00	8.12	0.00	0.00	0.00	0.00	
d_A, Approach Delay [s/veh]	14	.57	0.	.00	0.	00	
Approach LOS	E	3		A	,	4	
d_I, Intersection Delay [s/veh]	0.28						
Intersection LOS	В						

# Intersection Level Of Service Report Intersection 103: Civic Drive at Project Driveway

Control Type:Two-way stopDelay (sec / veh):12.0Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.018

#### Intersection Setup

Name							
Approach	North	bound	South	nbound	Eastbound		
Lane Configuration	пİ		1	H	Ψ.		
Turning Movement	Left	Thru	Thru	Right	Left	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1 0		0	0	0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30.00		30	0.00	30.00		
Grade [%]	0.00		0	.00	0.00		
Crosswalk	No		1	No	Yes		

Name						
Base Volume Input [veh/h]	46	153	86	12	9	37
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0400	1.0400	1.0400	1.0400	1.0400	1.0400
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	3	0	0	0	0	15
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	11	0	0	0	0	10
Existing Site Adjustment Volume [veh/h]	0	128	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	62	287	89	12	9	63
Peak Hour Factor	0.8960	0.8960	0.8960	0.8960	0.8960	0.8960
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	17	80	25	3	3	18
Total Analysis Volume [veh/h]	69	320	99	13	10	70
Pedestrian Volume [ped/h]	(	)	0		(	)



### Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

### Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.00	0.00	0.00	0.02	0.07			
d_M, Delay for Movement [s/veh]	7.56	0.00	0.00	0.00	11.95	8.99			
Movement LOS	Α	А	A	A	В	Α			
95th-Percentile Queue Length [veh/ln]	0.15	0.00	0.00	0.00	0.29	0.29			
95th-Percentile Queue Length [ft/ln]	3.68	0.00	0.00	0.00	7.25	7.25			
d_A, Approach Delay [s/veh]	1.3	34	0.	00	9.0	36			
Approach LOS	A	4	,	A					
d_I, Intersection Delay [s/veh]	2.19								
Intersection LOS	В								

APPENDIX C-4

INTERSECTION ANALYSIS WORKSHEETS – FUTURE YEAR 2035



## Victorville Raising Cane's

Vistro File: K:\...\RC Victorville - PM.vistro

Scenario 4 FY 35 1/15/2024

Report File: K:\...\FY 35 PM.pdf

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Civic Drive at Roy Rogers Drive	Signalized	HCM 7th Edition	EB Left	0.595	23.6	O
101	Roy Rogers Drive at West Driveway	Two-way stop	HCM 7th Edition	NB Left	1.466	389.0	F
102	Roy Rogers Drive at East Driveway	Two-way stop	HCM 7th Edition	SB Right	0.103	16.2	С
103	Civic Drive at Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.021	11.5	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



# Intersection Level Of Service Report Intersection 1: Civic Drive at Roy Rogers Drive

Control Type:SignalizedDelay (sec / veh):23.6Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.595

#### Intersection Setup

Name													
Approach	١	lorthboun	d	S	outhboun	d	Eastbound			Westbound			
Lane Configuration	+	nirr			٦ĺ٢			7  F			רדווור		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	2	0	1	
Entry Pocket Length [ft]	200.00	100.00	195.00	145.00	100.00	100.00	230.00	100.00	100.00	285.00	100.00	200.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]		45.00			30.00		45.00			45.00			
Grade [%]		0.00			0.00		0.00			0.00			
Curb Present	No			No		No			No				
Crosswalk		Yes		Yes			Yes			No			

Name												
Base Volume Input [veh/h]	98	60	412	113	30	16	44	776	68	247	869	105
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Proportion of CAVs [%]		•			•	0.	00		•	•	•	•
Growth Factor	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400
In-Process Volume [veh/h]	0	0	0	0	0	0	0	8	0	0	6	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	122	74	511	140	37	20	55	970	84	306	1084	130
Peak Hour Factor	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	32	20	135	37	10	5	15	257	22	81	287	34
Total Analysis Volume [veh/h]	129	78	541	148	39	21	58	1026	89	324	1147	138
Presence of On-Street Parking	No		No									
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0			0			0			0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing		0			0		0			0		
v_ci, Inbound Pedestrian Volume crossing mi		0		0		0			0			
v_ab, Corner Pedestrian Volume [ped/h]		0		0		0			0			
Bicycle Volume [bicycles/h]		0		0		0			0			

### Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Active Pattern	Pattern 1
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Semi-actuated
Offset [s]	0.0
Offset Reference	Lead Green - Beginning of First Green
Permissive Mode	SingleBand
Lost time [s]	8.00

## Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	3	8	8	7	4	0	5	2	0	1	6	6
Auxiliary Signal Groups			1,8									6,7
Lead / Lag	Lead	-	-									
Minimum Green [s]	5	10	10	5	10	0	5	10	0	5	10	10
Maximum Green [s]	14	29	29	14	29	0	5	26	0	5	26	26
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	14	29	29	18	33	0	14	30	0	13	29	29
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
Walk [s]	0	5	5	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	10	10	0	24	0	0	21	0	0	14	14
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
l2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No	No	No	No		No	No		No	No	No
Maximum Recall	No	No	No	No	No		No	No		No	No	No
Pedestrian Recall	No	No	No	No	No		No	No		No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

## **Lane Group Calculations**

Lane Group	L	С	R	L	С	С	L	С	С	L	С	R
C, Cycle Length [s]	90	90	90	90	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00
g_i, Effective Green Time [s]	8	10	23	9	11	11	4	46	46	9	51	64
g / C, Green / Cycle	0.09	0.11	0.26	0.10	0.13	0.13	0.04	0.51	0.51	0.10	0.56	0.71
(v / s)_i Volume / Saturation Flow Rate	0.07	0.04	0.19	0.08	0.02	0.02	0.03	0.21	0.21	0.09	0.23	0.09
s, saturation flow rate [veh/h]	1781	1870	2813	1781	1870	1660	1781	3560	1795	3459	5094	1589
c, Capacity [veh/h]	160	210	723	186	237	210	77	1799	907	346	2864	1130
d1, Uniform Delay [s]	40.17	36.99	30.77	39.36	34.88	34.93	42.60	13.90	13.91	40.22	11.13	4.11
k, delay calibration	0.11	0.11	0.33	0.11	0.11	0.11	0.11	0.50	0.50	0.11	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.04	1.09	4.74	7.53	0.24	0.30	13.96	0.70	1.39	11.78	0.42	0.22
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### Lane Group Results

•												
X, volume / capacity	0.80	0.37	0.75	0.80	0.13	0.14	0.76	0.41	0.41	0.94	0.40	0.12
d, Delay for Lane Group [s/veh]	49.21	38.08	35.51	46.89	35.13	35.23	56.56	14.60	15.29	52.00	11.55	4.33
Lane Group LOS	D	D	D	D	D	D	E	В	В	D	В	Α
Critical Lane Group	No	No	Yes	Yes	No	No	No	No	Yes	Yes	No	No
50th-Percentile Queue Length [veh/ln]	3.07	1.58	5.51	3.54	0.61	0.58	1.52	4.28	4.50	3.95	3.74	0.62
50th-Percentile Queue Length [ft/ln]	76.77	39.52	137.73	88.44	15.20	14.57	37.96	107.07	112.47	98.77	93.46	15.46
95th-Percentile Queue Length [veh/ln]	5.53	2.85	9.36	6.37	1.09	1.05	2.73	7.68	7.98	7.11	6.73	1.11
95th-Percentile Queue Length [ft/ln]	138.18	71.13	233.96	159.20	27.37	26.23	68.33	191.92	199.43	177.78	168.24	27.83

### Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	49.21	38.08	35.51	46.89	35.15	35.23	56.56	14.79	15.29	52.00	11.55	4.33
Movement LOS	D	D	D	D	D	D	Е	В	В	D	В	Α
d_A, Approach Delay [s/veh]	38.14			43.51			16.90			19.07		
Approach LOS		D			D			В			В	
d_I, Intersection Delay [s/veh]						23	.57					
Intersection LOS		С										
Intersection V/C	0.595											

#### Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	36.45	36.45	0.00
I_p,int, Pedestrian LOS Score for Intersectio	2.747	2.250	3.111	0.000
Crosswalk LOS	В	В	С	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	556	644	578	556
d_b, Bicycle Delay [s]	23.47	20.67	22.76	23.47
I_b,int, Bicycle LOS Score for Intersection	2.794	1.731	2.205	2.445
Bicycle LOS	С	A	В	В

## Sequence

•																
Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-





# Intersection Level Of Service Report Intersection 101: Roy Rogers Drive at West Driveway

Control Type:Two-way stopDelay (sec / veh):389.0Analysis Method:HCM 7th EditionLevel Of Service:FAnalysis Period:15 minutesVolume to Capacity (v/c):1.466

#### Intersection Setup

Name							
Approach	North	bound	East	bound	Westbound		
Lane Configuration	-	r	- 11	F	7111		
Turning Movement	Left	Right	Thru	Right	Left	Thru	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	0	0	1	0	1	0	
Entry Pocket Length [ft]	100.00	100.00	385.00	100.00	150.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	.00	30	0.00	30.00		
Grade [%]	0.	00	0.	.00	0.00		
Crosswalk	Y	es	N	No	No		

Name							
Base Volume Input [veh/h]	128	60	804	131	48	942	
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	
Growth Factor	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	
In-Process Volume [veh/h]	0	0	8	0	0	6	
Site-Generated Trips [veh/h]	0	0	0	0	0	0	
Diverted Trips [veh/h]	0	0	0	0	0	0	
Pass-by Trips [veh/h]	0	0	0	0	0	0	
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	
Other Volume [veh/h]	0	0	0	0	0	0	
Total Hourly Volume [veh/h]	159	74	1005	162	60	1174	
Peak Hour Factor	0.9870	0.9870	0.9870	0.9870	0.9870	0.9870	
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Total 15-Minute Volume [veh/h]	40	19	255	41	15	297	
Total Analysis Volume [veh/h]	161	75	1018	164	61	1189	
Pedestrian Volume [ped/h]	(	)	(	)	0		



## Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio	1.47	0.19	0.01	0.00	0.19	0.01	
d_M, Delay for Movement [s/veh]	389.00	365.54	0.00	0.00	18.91	0.00	
Movement LOS	F	F	Α	A	С	Α	
95th-Percentile Queue Length [veh/ln]	16.96 16.96		0.00	0.00 0.00		0.00	
95th-Percentile Queue Length [ft/ln]	423.89	423.89	0.00	0.00	17.33	0.00	
d_A, Approach Delay [s/veh]	381	.54	0.	00	0.92		
Approach LOS	F	=	,	4	A		
d_I, Intersection Delay [s/veh]			34	.18			
Intersection LOS	F						



# Intersection Level Of Service Report Intersection 102: Roy Rogers Drive at East Driveway

Control Type:Two-way stopDelay (sec / veh):16.2Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.103

#### Intersection Setup

Name							
Approach	Southbound		East	bound	Westbound		
Lane Configuration	۲		111		IIF		
Turning Movement	Left	Right	Left	Thru	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	0 0		0	0 0		0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	.00	30	30.00		0.00	
Grade [%]	0.	0.00		0.00		0.00	
Crosswalk	Y	Yes		No		No	

Name						
Base Volume Input [veh/h]	0	28	0	832	966	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.2400	1.0000	1.2400	1.2400	1.2400
In-Process Volume [veh/h]	0	0	0	8	6	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	35	0	1040	1204	17
Peak Hour Factor	1.0000	0.9580	1.0000	0.9580	0.9580	0.9580
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	9	0	271	314	4
Total Analysis Volume [veh/h]	0	37	0	1086	1257	18
Pedestrian Volume [ped/h]		0		0		0



## Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio	0.00	0.10 0.00		0.01	0.01	0.00	
d_M, Delay for Movement [s/veh]	0.00	16.15	0.00	0.00	0.00	0.00	
Movement LOS	С			A	A	A	
95th-Percentile Queue Length [veh/ln]	0.00	0.34	0.00	0.00	0.00	0.00	
95th-Percentile Queue Length [ft/ln]	0.00	8.53	0.00	0.00	0.00	0.00	
d_A, Approach Delay [s/veh]	16	.15	0.00		0.00		
Approach LOS	(	C		A	A		
d_I, Intersection Delay [s/veh]			0	.25			
Intersection LOS	С						



# Intersection Level Of Service Report Intersection 103: Civic Drive at Project Driveway

Control Type:Two-way stopDelay (sec / veh):11.5Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.021

## Intersection Setup

Name							
Approach	Northbound		South	bound	Eastbound		
Lane Configuration	ηİ		1	TH-		r	
Turning Movement	Left	Thru	Thru	Right	Left	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1 0		0 0		0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	.00	30	30.00		0.00	
Grade [%]	0.	0.00		0.00		0.00	
Crosswalk	N	lo	No		Yes		

Name						
Base Volume Input [veh/h]	46	153	86	12	9	37
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	57	190	107	15	11	46
Peak Hour Factor	0.8960	0.8960	0.8960	0.8960	0.8960	0.8960
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	53	30	4	3	13
Total Analysis Volume [veh/h]	64	212	119	17	12	51
Pedestrian Volume [ped/h]	(	)	(	)	0	



## Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.02	0.05		
d_M, Delay for Movement [s/veh]	7.61	0.00	0.00	0.00	11.49	8.99		
Movement LOS	Α	Α	A	A	В	Α		
95th-Percentile Queue Length [veh/ln]	0.14 0.00		0.00 0.00		0.23	0.23		
95th-Percentile Queue Length [ft/ln]	3.47	0.00	0.00	0.00	5.85	5.85		
d_A, Approach Delay [s/veh]	1.	76	0.00		9.47			
Approach LOS	A	4	,	4	A			
d_I, Intersection Delay [s/veh]	2.28							
Intersection LOS		В						

APPENDIX C-5

INTERSECTION ANALYSIS
WORKSHEETS FUTURE YEAR 2035 PLUS PROJECT



## Victorville Raising Cane's

Vistro File: K:\...\RC Victorville - PM.vistro Report File: K:\...\FY 35 WP PM.pdf

Scenario 5 FY 35 WP 1/15/2024

## **Intersection Analysis Summary**

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	Civic Drive at Roy Rogers Drive	Signalized	HCM 7th Edition	EB Left	0.654	29.3	О
101	Roy Rogers Drive at West Driveway	Two-way stop	HCM 7th Edition	NB Right	0.532	24.4	С
102	Roy Rogers Drive at East Driveway	Two-way stop	HCM 7th Edition	SB Right	0.132	16.6	С
103	Civic Drive at Project Driveway	Two-way stop	HCM 7th Edition	EB Left	0.024	12.7	В

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.



# Intersection Level Of Service Report Intersection 1: Civic Drive at Roy Rogers Drive

Control Type:SignalizedDelay (sec / veh):29.3Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.654

#### Intersection Setup

Name												
Approach	١	Northbound		S	Southbound		Eastbound		Westbound			
Lane Configuration	nirr			٦l۴		7111			าาไไไต			
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	1	0	1	1	0	0	1	0	0	2	0	1
Entry Pocket Length [ft]	200.00	100.00	195.00	145.00	100.00	100.00	230.00	100.00	100.00	285.00	100.00	200.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]		45.00			30.00			45.00			45.00	
Grade [%]		0.00			0.00			0.00		0.00		
Curb Present	No			No		No			No			
Crosswalk		Yes			Yes		Yes			No		



Name				I						1		
Base Volume Input [veh/h]	98	60	412	113	30	16	44	776	68	247	869	105
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Proportion of CAVs [%]			ı	l	I	0.	00		ı		1	l
Growth Factor	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400
In-Process Volume [veh/h]	0	0	0	0	0	0	0	8	0	0	6	0
Site-Generated Trips [veh/h]	2	0	0	13	2	0	0	0	0	0	10	3
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	10	0	0	11	-11	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	128	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	124	74	511	163	39	20	194	959	84	306	1094	133
Peak Hour Factor	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450	0.9450
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	33	20	135	43	10	5	51	254	22	81	289	35
Total Analysis Volume [veh/h]	131	78	541	172	41	21	205	1015	89	324	1158	141
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing		0	-		0			0	-		0	
v_di, Inbound Pedestrian Volume crossing m		0			0			0			0	
v_co, Outbound Pedestrian Volume crossing	0				0		0				0	
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	[bicycles/h] 0			0				0		0		

## Intersection Settings

Located in CBD	No	
Signal Coordination Group	•	
Cycle Length [s]	90	
Active Pattern	Pattern 1	
Coordination Type	Time of Day Pattern Coordinated	
Actuation Type	Semi-actuated	
Offset [s]	0.0	
Offset Reference	Lead Green - Beginning of First Green	
Permissive Mode	SingleBand	
Lost time [s]	8.00	

## Phasing & Timing

Control Type	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap
Signal Group	3	8	8	7	4	0	5	2	0	1	6	6
Auxiliary Signal Groups			1,8									6,7
Lead / Lag	Lead	-	-									
Minimum Green [s]	5	10	10	5	10	0	5	10	0	5	10	10
Maximum Green [s]	14	29	29	14	29	0	5	26	0	5	26	26
Amber [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
All red [s]	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	1.0
Split [s]	14	29	29	18	33	0	14	30	0	13	29	29
Vehicle Extension [s]	3.0	3.0	3.0	3.0	3.0	0.0	3.0	3.0	0.0	3.0	3.0	3.0
Walk [s]	0	5	5	0	5	0	0	5	0	0	5	5
Pedestrian Clearance [s]	0	10	10	0	24	0	0	21	0	0	14	14
Delayed Vehicle Green [s]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rest In Walk		No			No			No			No	
I1, Start-Up Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
l2, Clearance Lost Time [s]	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
Minimum Recall	No	No	No	No	No		No	No		No	No	No
Maximum Recall	No	No	No	No	No		No	No		No	No	No
Pedestrian Recall	No	No	No	No	No		No	No		No	No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

### **Exclusive Pedestrian Phase**

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

## **Lane Group Calculations**

Lane Group	L	С	R	L	С	С	L	С	С	L	С	R
C, Cycle Length [s]	90	90	90	90	90	90	90	90	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
I1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
I2, Clearance Lost Time [s]	2.00	2.00	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00
g_i, Effective Green Time [s]	8	10	23	11	12	12	10	44	44	9	43	58
g / C, Green / Cycle	0.09	0.11	0.26	0.12	0.14	0.14	0.11	0.49	0.49	0.10	0.48	0.64
(v / s)_i Volume / Saturation Flow Rate	0.07	0.04	0.19	0.10	0.02	0.02	0.12	0.21	0.21	0.09	0.23	0.09
s, saturation flow rate [veh/h]	1781	1870	2813	1781	1870	1666	1781	3560	1794	3459	5094	1589
c, Capacity [veh/h]	163	210	723	210	260	232	198	1751	882	346	2448	1022
d1, Uniform Delay [s]	40.11	36.99	30.77	38.74	33.91	33.95	40.00	14.65	14.65	40.22	15.71	6.29
k, delay calibration	0.11	0.11	0.33	0.14	0.11	0.11	0.39	0.50	0.50	0.11	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	9.01	1.09	4.74	9.72	0.21	0.25	66.38	0.74	1.47	11.78	0.66	0.28
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

## Lane Group Results

X, volume / capacity	0.81	0.37	0.75	0.82	0.12	0.13	1.04	0.42	0.42	0.94	0.47	0.14
d, Delay for Lane Group [s/veh]	49.12	38.08	35.51	48.46	34.12	34.20	106.38	15.39	16.12	52.00	16.37	6.57
Lane Group LOS	D	D	D	D	С	С	F	В	В	D	В	Α
Critical Lane Group	No	No	Yes	Yes	No	No	Yes	No	No	No	Yes	No
50th-Percentile Queue Length [veh/ln]	3.12	1.58	5.51	4.22	0.62	0.59	7.80	4.40	4.61	3.95	4.85	0.91
50th-Percentile Queue Length [ft/In]	77.88	39.52	137.73	105.42	15.45	14.75	195.05	109.97	115.32	98.77	121.17	22.65
95th-Percentile Queue Length [veh/ln]	5.61	2.85	9.36	7.58	1.11	1.06	12.56	7.84	8.13	7.11	8.46	1.63
95th-Percentile Queue Length [ft/ln]	140.18	71.13	233.96	189.61	27.81	26.56	314.01	195.96	203.37	177.78	211.43	40.78

## Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	49.12	49.12 38.08 35.51			34.14	34.20	106.38	15.59	16.12	52.00	16.37	6.57
Movement LOS	D	D D D			С	С	F	В	В	D	В	Α
d_A, Approach Delay [s/veh]		38.15			44.67			29.84		22.63		
Approach LOS		D			D			С			С	
d_I, Intersection Delay [s/veh]				29.33								
Intersection LOS						(	)					
Intersection V/C	0.654											

#### Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	36.45	36.45	0.00
I_p,int, Pedestrian LOS Score for Intersectio	2.748	2.293	3.143	0.000
Crosswalk LOS	В	В	С	F
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	556	644	578	556
d_b, Bicycle Delay [s]	23.47	20.67	22.76	23.47
I_b,int, Bicycle LOS Score for Intersection	2.797	1.753	2.280	2.452
Bicycle LOS	С	A	В	В

## Sequence

•					_											
Ring 1	1	2	3	4	-	-	-	-	-	-	-	-	-	-	1	-
Ring 2	5	6	7	8	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



# Intersection Level Of Service Report Intersection 101: Roy Rogers Drive at West Driveway

Control Type:Two-way stopDelay (sec / veh):24.4Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.532

#### Intersection Setup

Name												
Approach	١	lorthboun	d	S	Southbound			Eastbound	ł	Westbound		
Lane Configuration		+			r			1   <u> </u>	,	7    <del>-</del>		
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Entry Pocket	0	0	0	0	0	0	1	0	0	1	0	0
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	385.00	100.00	100.00	150.00	100.00	100.00
No. of Lanes in Exit Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Speed [mph]		30.00			30.00	-		30.00	-	30.00		
Grade [%]		0.00			0.00			0.00		0.00		
Crosswalk		Yes			Yes			No		No		

Name												
Base Volume Input [veh/h]	128	0	60	0	0	0	0	804	131	48	942	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.2400	1.2400	1.0000	1.0000	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400
In-Process Volume [veh/h]	0	0	0	0	0	0	0	8	0	0	6	0
Site-Generated Trips [veh/h]	0	0	0	0	0	3	7	0	0	0	3	3
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	8	0	0	0	0	-1	8
Existing Site Adjustment Volume [veh/h]	-128	0	128	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	202	0	0	11	7	1005	162	60	1176	11
Peak Hour Factor	0.9870	0.9870	0.9870	1.0000	1.0000	0.9870	0.9870	0.9870	0.9870	0.9870	0.9870	0.9870
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	51	0	0	3	2	255	41	15	298	3
Total Analysis Volume [veh/h]	0	0	205	0	0	11	7	1018	164	61	1191	11
Pedestrian Volume [ped/h]		0			0		0			0		



## Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane	No			
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

V/C, Movement V/C Ratio	0.00	.00 0.00 0.53		0.00	0.00	0.03	0.02	0.01	0.00	0.19	0.01	0.00
d_M, Delay for Movement [s/veh]	64.16	4.16 161.37 <b>24.44</b> 0		0.00	0.00	14.76	16.79	0.00	0.00	18.91	0.00	0.00
Movement LOS	F	F F C				В	С	Α	Α	С	Α	Α
95th-Percentile Queue Length [veh/ln]	3.00	.00 3.00 3.00 0.		0.00	0.00	0.09	0.07	0.00	0.00	0.69	0.00	0.00
95th-Percentile Queue Length [ft/ln]	75.10	5.10 75.10 75.10		0.00	0.00	2.23	1.72	0.00	0.00	17.33	0.00	0.00
d_A, Approach Delay [s/veh]		24.44		14.76			0.10			0.91		
Approach LOS		С			В			А		Α		
d_I, Intersection Delay [s/veh]					2.42							
Intersection LOS					C							

# Intersection Level Of Service Report Intersection 102: Roy Rogers Drive at East Driveway

Control Type:Two-way stopDelay (sec / veh):16.6Analysis Method:HCM 7th EditionLevel Of Service:CAnalysis Period:15 minutesVolume to Capacity (v/c):0.132

#### Intersection Setup

Name							
Approach	South	Southbound		Eastbound		tbound	
Lane Configuration	1	۲		111		IIF	
Turning Movement	Left	Right	Left	Thru	Thru	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	0	0	0	0	0	0	
Entry Pocket Length [ft]	100.00	100.00	100.00 100.00		100.00 100.00		
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	30.00		30.00		30.00	
Grade [%]	0	0.00		0.00		0.00	
Crosswalk	Y	Yes		No		No	

Name						
Base Volume Input [veh/h]	0	28	0	832	966	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.2400	1.0000	1.2400	1.2400	1.2400
In-Process Volume [veh/h]	0	0	0	8	6	0
Site-Generated Trips [veh/h]	0	3	0	0	3	9
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	7	0	0	-9	9
Existing Site Adjustment Volume [veh/h]	0	0	0	128	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	45	0	1168	1198	35
Peak Hour Factor	1.0000	0.9580	1.0000	0.9580	0.9580	0.9580
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	12	0	305	313	9
Total Analysis Volume [veh/h]	0	47	0	1219	1251	37
Pedestrian Volume [ped/h]	0		0		0	



## Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio	0.00	0.13	0.00	0.01	0.01	0.00	
d_M, Delay for Movement [s/veh]	0.00	16.64	0.00	0.00	0.00	0.00	
Movement LOS		С		A	A	A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00 0.45		0.00	0.00	0.00	
95th-Percentile Queue Length [ft/ln]	0.00	11.27	0.00	0.00	0.00	0.00	
d_A, Approach Delay [s/veh]	16	.64	0.00		0.00		
Approach LOS	(	C		A	A		
d_I, Intersection Delay [s/veh]			0.31				
Intersection LOS				С			

# Intersection Level Of Service Report Intersection 103: Civic Drive at Project Driveway

Control Type:Two-way stopDelay (sec / veh):12.7Analysis Method:HCM 7th EditionLevel Of Service:BAnalysis Period:15 minutesVolume to Capacity (v/c):0.024

#### Intersection Setup

Name							
Approach	North	Northbound		Southbound		bound	
Lane Configuration	-	ηİ		11		Ŧ	
Turning Movement	Left	Thru	Thru	Right	Left	Right	
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	
No. of Lanes in Entry Pocket	1	1 0		0 0		0	
Entry Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	
No. of Lanes in Exit Pocket	0	0	0	0	0	0	
Exit Pocket Length [ft]	0.00	0.00	0.00	0.00	0.00	0.00	
Speed [mph]	30	30.00		30.00		0.00	
Grade [%]	0.	0.00		0.00		0.00	
Crosswalk	N	No		No		Yes	

Name							
Base Volume Input [veh/h]	46	153	86	12	9	37	
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	
Growth Factor	1.2400	1.2400	1.2400	1.2400	1.2400	1.2400	
In-Process Volume [veh/h]	0	0	0	0	0	0	
Site-Generated Trips [veh/h]	3	0	0	0	0	15	
Diverted Trips [veh/h]	0	0	0	0	0	0	
Pass-by Trips [veh/h]	11	0	0	0	0	10	
Existing Site Adjustment Volume [veh/h]	0	128	0	0	0	0	
Other Volume [veh/h]	0	0	0	0	0	0	
Total Hourly Volume [veh/h]	71	318	107	15	11	71	
Peak Hour Factor	0.8960	0.8960	0.8960	0.8960	0.8960	0.8960	
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
Total 15-Minute Volume [veh/h]	20	89	30	4	3	20	
Total Analysis Volume [veh/h]	79	355	119	17	12	79	
Pedestrian Volume [ped/h]	0		(	0		0	



## Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

V/C, Movement V/C Ratio	0.05	0.00	0.00	0.00	0.02	0.08	
d_M, Delay for Movement [s/veh]	7.63	0.00	0.00	0.00	12.70	9.15	
Movement LOS	Α	А	А	A A		Α	
95th-Percentile Queue Length [veh/ln]	entile Queue Length [veh/ln] 0.17		0.00	0.00	0.35	0.35	
95th-Percentile Queue Length [ft/ln]	4.33	0.00	0.00	0.00 0.00		8.73	
d_A, Approach Delay [s/veh]	1.	1.39		0.00		9.62	
Approach LOS	/	A		A		A	
d_I, Intersection Delay [s/veh]			2.24				
Intersection LOS				3			

APPENDIX **D** 

CUMULATIVE PROJECTS INFORMATION

## TOTAL CUMULATIVE PROJECTS TRAFFIC

1	Civic Drive at Roy Rogers Drive
2	Roy Rogers Drive at West Project Driveway (D1)
3	Roy Rogers Drive at East Project Driveway (D2)
4	Civic Drive at Project Driveway (D3)
5	
6	
7	
8	
Ω	

Ţ.	AM Peak Hour											
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
I	0	0	0	0	0	0	0	5	0	0	7	0
	0	0	0	0	0	0	0	5	0	0	7	0
	0	0	0	0	0	0	0	5	0	0	7	0
	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0
)[	0	0	0	0	0	0	0	0	0	0	0	0

1	Civic Drive at Roy Rogers Drive
2	Roy Rogers Drive at West Project Driveway (D1)
3	Roy Rogers Drive at East Project Driveway (D2)
4	Civic Drive at Project Driveway (D3)
5	

	PM Peak	Hour										
	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
	0	0	0	0	0	0	0	8	0	0	6	0
	0	0	0	0	0	0	0	8	0	0	6	0
	0	0	0	0	0	0	0	8	0	0	6	0
	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

Int. #: 1 Civic Drive at Roy Rogers Drive

Mirror distribution? Y Entire Intersection

Mirror distribution?

TOTAL (	CUMUL	ATIVE P	ROJECTS	STRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	1	0	0	6	0
AM Out		0	0	0	0	0	0	0	4	0	0	1	0
AM Tot		0	0	0	0	0	0	0	5	0	0	7	0
PM In		0	0	0	0	0	0	0	1	0	0	5	0
PM Out		0	0	0	0	0	0	0	7	0	0	1	0
PM Tot		0	0	0	0	0	0	0	8	0	0	6	0

Zone # 1 15425 Dos Palmas Rd / 13721 Park Ave

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											20%	
Υ	0%	0%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%		20%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	20%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	27	0	0	0	0	0	0	0	0	0	0	5	0
AM Out	11	0	0	0	0	0	0	0	2	0	0	0	0
PM In	15	0	0	0	0	0	0	0	0	0	0	3	0
PM Out	25	0	0	0	0	0	0	0	5	0	0	0	0

Zone # 2 14281 7th St

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In								50%				
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	1	0	0	0	0	0	0	0	1	0	0	0	0
AM Out	1	0	0	0	0	0	0	0	0	0	0	1	0
PM In	1	0	0	0	0	0	0	0	1	0	0	0	0
PM Out	2	0	0	0	0	0	0	0	0	0	0	1	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In											30%	
Υ	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	2	0	0	0	0	0	0	0	0	0	0	1	0
AM Out	7	0	0	0	0	0	0	0	2	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	2	0
PM Out	5	0	0	0	0	0	0	0	2	0	0	0	0

Int. #:	2	Roy Rogers Drive at West Project Driveway (D1)
-		N

TOTAL (	CUMUL	ATIVE P	ROJECTS	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	0	0	0	0	0
AM Out		0	0	0	0	0	0	0	0	0	0	0	0
AM Tot		0	0	0	0	0	0	0	0	0	0	0	0
PM In		0	0	0	0	0	0	0	0	0	0	0	0
PM Out		0	0	0	0	0	0	0	0	0	0	0	0
PM Tot		0	0	0	0	0	0	0	0	0	0	0	0

Zone # 1 15425 Dos Palmas Rd / 13721 Park Ave

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	27	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	11	0	0	0	0	0	0	0	0	0	0	0	0
PM In	15	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	25	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 14281 7th St

NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
	0%	0% 0%	0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0%         0%         0%         0%         0%         0%         0%         0%         0%           0% </td <td>0%         0%&lt;</td> <td>0%         0%&lt;</td> <td>0%         0%&lt;</td>	0%         0%<	0%         0%<	0%         0%<

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	1	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1	0	0	0	0	0	0	0	0	0	0	0	0
PM In	1	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	2	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	7	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	5	0	0	0	0	0	0	0	0	0	0	0	0

# Int. #: 3 Roy Rogers Drive at East Project Driveway (D2)

N



TOTAL (	CUMUL	ATIVE P	ROJECTS	STRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	0	0	0	0	0
AM Out		0	0	0	0	0	0	0	0	0	0	0	0
AM Tot		0	0	0	0	0	0	0	0	0	0	0	0
PM In		0	0	0	0	0	0	0	0	0	0	0	0
PM Out		0	0	0	0	0	0	0	0	0	0	0	0
PM Tot		0	0	0	0	0	0	0	0	0	0	0	0

Zone # 1 15425 Dos Palmas Rd / 13721 Park Ave

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	27	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	11	0	0	0	0	0	0	0	0	0	0	0	0
PM In	15	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	25	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 14281 7th St

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	1	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	1	0	0	0	0	0	0	0	0	0	0	0	0
PM In	1	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	2	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
N	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	2	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	7	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	5	0	0	0	0	0	0	0	0	0	0	0	0

Int. #:	4	Civic Drive at Project Driveway (D3)
-	I	Y
	ļ	

TOTAL (	CUMUL	ative P	ROJECTS	S TRAFF	IC								
Pk Hr		NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In		0	0	0	0	0	0	0	0	0	0	0	0
AM Out		0	0	0	0	0	0	0	0	0	0	0	0
AM Tot		0	0	0	0	0	0	0	0	0	0	0	0
PM In		0	0	0	0	0	0	0	0	0	0	0	0
PM Out		0	0	0	0	0	0	0	0	0	0	0	0
PM Tot		0	0	0	0	0	0	0	0	0	0	0	0

Zone # 1 15425 Dos Palmas Rd / 13721 Park Ave

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%		0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	27	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	11	0	0	0	0	0	0	0	0	0	0	0	0
PM In	15	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	25	0	0	0	0	0	0	0	0	0	0	0	0

Zone # 2 14281 7th St

NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
t											
0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
t 0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
ı	0% ut 0%	0% 0% ut 0% 0%	0% 0% 0% ut 0% 0% 0%	0% 0% 0% 0% 0% 1t	0% 0% 0% 0% 0% 0% 1t	0% 0% 0% 0% 0% 0% 0% 1t	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 1t	1t	1t	1t

Pk	k Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM	In	1	0	0	0	0	0	0	0	0	0	0	0	0
AM	Out	1	0	0	0	0	0	0	0	0	0	0	0	0
PM	In	1	0	0	0	0	0	0	0	0	0	0	0	0
PM	Out	2	0	0	0	0	0	0	0	0	0	0	0	0

Pk Hr	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In												
Υ	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
AM Out												
PM In	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
PM Out	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Pk Hr	T Gen	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR
AM In	2	0	0	0	0	0	0	0	0	0	0	0	0
AM Out	7	0	0	0	0	0	0	0	0	0	0	0	0
PM In	8	0	0	0	0	0	0	0	0	0	0	0	0
PM Out	5	0	0	0	0	0	0	0	0	0	0	0	0

APPENDIX **E** 

DRIVE-THROUGH QUEUING DATA COLLECTION

Location: Raising Canes - 2249 N Tustin St

City: Orange, CA

Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total	Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
11:00 AM	2	2	0	4	4:00 PM	3	0	0	3
11:02 AM	3	1	0	4	4:02 PM	2	0	0	2
11:04 AM	4	3	0	7	4:05 PM	1	1	0	2
11:07 AM	4	4	0	8	4:07 PM	1	0	0	1
11:10 AM	3	5	0	8	4:09 PM	0	0	0	0
11:12 AM	4	4	0	8	4:14 PM	1	0	0	1
11:13 AM	4	2	0	6	4:18 PM	2	0	0	2
11:15 AM	2	3	0	5	4:19 PM	2	3	0	5
11:17 AM	1	3	0	4	4:20 PM	2	3	1	6
11:19 AM	3	1	0	4	4:22 PM	3	3	2	8
11:21 AM	1	3	3	7	4:24 PM	4	3	1	8
11:22 AM	1	3	4	8	4:26 PM	3	4	0	7
11:24 AM	2	3	3	8	4:28 PM	3	3	1	7
11:26 AM	3	3	2	8	4:30 PM	4	3	1	8
11:28 AM	3	3	3	9	4:34 PM	4	4	2	10
11:30 AM	3	3	1	7	4:36 PM	4	4	1	9
11:33 AM	2	3	0	5	4:38 PM	4	4	0	8
11:36 AM	2	2	0	4	4:40 PM	4	3	0	7
11:38 AM	3	1	0	4	4:43 PM	4	2	0	6
11:40 AM	4	1	0	5	4:48 PM	3	1	0	4
11:43 AM	3	2	0	5	4:50 PM	3	3	3	9
11:46 AM	2	2	0	4	4:52 PM	3	3	4	10
11:48 AM	1	1	0	2	4:54 PM	3	3	2	8
11:50 AM	0	2	0	2	4:56 PM	3	3	0	6
11:51 AM	1	1	0	2	4:58 PM	3	2	0	5
11:54 AM	0	2	0	2	5:00 PM	3	3	1	7
11:55 AM	1	1	0	2	5:02 PM	3	3	0	6
11:57 AM	1	2	0	3	5:04 PM	4	1	0	5
11:58 AM	2	2	0	4	5:06 PM	3	1	0	4
12:00 PM	3	3	1	7	5:08 PM	3	3	0	6
12:02 PM	2	3	2	7	5:10 PM	3	2	0	5
12:04 PM	2	3	1	6	5:12 PM	3	3	1	7
12:05 PM	3	2	0	5	5:14 PM	3	3	2	8
12:06 PM	2	3	0	5	5:20 PM	3	3	4	10
12:08 PM	4	4	0	8	5:22 PM	3	3	3	9
12:09 PM	4	3	0	7	5:24 PM	3	3	4	10
12:11 PM	3	3	0	6	5:28 PM	3	3	6	12
12:12 PM	3	3	2	8	5:30 PM	3	3	5	11
12:13 PM	2	3	2	7	5:32 PM	3	3	4	10
12:14 PM	1	3	0	4	5:34 PM	4	3	4	11
12:15 PM	1	3	1	5	5:36 PM	4	4	3	11

12:16 PM	0	3	2	5	5:38 PM	3	3	4
12:17 PM	1	3	1	5	5:40 PM	3	3	3
12:18 PM	2	3	1	6	5:42 PM	3	3	2
12:19 PM	3	3	3	9	5:44 PM	3	2	0
12:20 PM	3	3	1	7	5:50 PM	2	2	0
12:21 PM	4	3	1	8	5:21 PM	2	1	0
12:23 PM	3	3	2	8	5:53 PM	2	0	0
12:26 PM	2	3	3	8	5:54 PM	1	0	0
12:28 PM	2	3	1	6	5:57 PM	0	0	0
12:29 PM	1	3	1	5	5:59 PM	1	1	0
12:30 PM	1	3	0	4	6:01 PM	1	3	0
12:31 PM	2	2	0	4	6:03 PM	2	2	0
12:32 PM	2	3	0	5	6:05 PM	2	3	0
12:33 PM	3	2	0	5	6:07 PM	3	2	1
12:34 PM	2	1	0	3	6:09 PM	2	3	3
12:35 PM	1	1	0	2	6:10 PM	2	3	5
12:36 PM	2	0	0	2	6:11 PM	2	3	6
12:38 PM	1	0	0	1	6:12 PM	1	3	6
12:39 PM	1	3	0	4	6:14 PM	2	3	7
12:40 PM	1	3	2	6	6:16 PM	3	3	5
12:42 PM	2	3	4	9	6:17 PM	3	3	3
12:43 PM	2	3	3	8	6:20 PM	2	3	3
12:44 PM	3	3	3	9	6:22 PM	2	3	2
12:45 PM	3	3	5	11	6:23 PM	2	3	4
12:47 PM	2	3	4	9	6:24 PM	2	3	5
12:48 PM	3	3	6	12	6:26 PM	5	3	7
12:50 PM	4	3	4	11	6:30 PM	3	3	5
12:52 PM	4	3	3	10	6:33 PM	3	3	6
12:54 PM	3	3	2	8	6:37 PM	3	3	8
12:56 PM	3	3	4	10	6:39 PM	3	3	7
12:57 PM	2	3	4	9	6:41 PM	3	3	8
12:28 PM	2	3	6	11	6:43 PM	4	3	8
1:00 PM	1	3	5	9	6:46 PM	4	3	9
1:01 PM	2	3	4	9	6:49 PM	4	3	8
1:02 PM	3	3	3	9	6:50 PM	4	3	7
1:03 PM	4	3	2	9	6:53 PM	4	3	6
1:04 PM	4	3	1	8	6:56 PM	4	3	8
1:05 PM	4	3	0	7	7:00 PM	4	3	7
1:07 PM	3	2	0	5				
1:09 PM	2	3	1	6				
1:10 PM	1	3	2	6				
1:12 PM	2	3	0	5				
1:14 PM	2	2	0	4				
1:16 PM	3	1	0	4				
1:17 PM	2	0	0	2				
1:18 PM	1	0	0	1				
1:20 PM	0	0	0	0				
1:23 PM	1	0	0	1				
1:24 PM	0	2	0	2				
1:26 PM	0	3	2	5				

1:28 PM

1:30 PM

				_
1:31 PM	2	3	2	7
1:33 PM	1	3	2	6
1:34 PM	2	3	1	6
1:36 PM	2	2	0	4
1:38 PM	3	1	0	4
1:40 PM	4	0	0	4
1:41 PM	3	0	0	3
1:42 PM	2	0	0	2
1:43 PM	1	0	0	1
1:46 PM	1	3	0	4
1:47 PM	2	2	0	4
1:49 PM	3	1	0	4
1:50 PM	4	1	0	5
1:52 PM	4	0	0	4
1:53 PM	3	1	0	4
1:54 PM	2	2	0	4
1:55 PM	3	1	0	4
1:57 PM	2	3	0	5
1:58 PM	3	4	0	7
2:00 PM	4	4	0	8

## Drive-thru Queue Study

Date: 9/29/2020

Location: Raising Canes - 10142 Adams Avenue

City: Huntington Beach, CA Day: Tuesday

Time	Number of Cars In Zone 1	Total	Time	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
11:01 AM	2	2	11:02 AM	1	0	1
11:02 AM	1	1	11:03 AM	1	1	2
11:04 AM	0	0	11:03 AM	2	0	2
11:04 AM	1	1	11:05 AM	0	0	0
11:05 AM	0	0	11:06 AM	0	1	1
11:05 AM	1	1	11:06 AM	1	0	1
11:06 AM	0	0	11:07 AM	1	1	2
11:07 AM	1	1	11:07 AM	2	0	2
11:09 AM	2	2	11:08 AM	1	0	1
11:11 AM	1	1	11:09 AM	0	0	0
11:12 AM	0	0	11:15 AM	0	1	1
11:17 AM	1	1	11:15 AM	1	0	1
11:18 AM	2	2	11:16 AM	1	3	4
11:18 AM	1	1	11:17 AM	3	0	3
11:19 AM	0	0	11:18 AM	2	1	3
11:19 AM	1	1	11:18 AM	3	0	3
11:20 AM	2	2	11:19 AM	3	1	4
11:20 AM	1	1	11:19 AM	4	1	5
11:21 AM	2	2	11:19 AM	5	0	5
11:21 AM	1	1	11:20 AM	4	0	4
11:22 AM	0	0	11:21 AM	3	0	3
11:22 AM	1	1	11:22 AM	2	0	2
11:23 AM	2	2	11:23 AM	1	0	1
11:24 AM	3	3	11:24 AM	0	0	0
11:26 AM	2	2	11:24 AM	0	1	1
11:26 AM	3	3	11:25 AM	1	0	1
11:26 AM	2	2	11:26 AM	0	0	0
11:28 AM	1	1	11:27 AM	0	2	2
11:28 AM	2	2	11:27 AM	2	0	2
11:29 AM	3	3	11:27 AM	2	1	3

11:30 AM	2	2	11:28 AM	2	0	3
11:30 AM	2	1	11:28 AM	3 2	0	2
11:30 AM	2	2	11:28 AIVI	1	1	2
11:30 AM	1	1	11:29 AM	2	0	2
	2	2				1
11:32 AM			11:31 AM	1	0	2
11:33 AM	3	3 2	11:31 AM	1	1	2
11:34 AM 11:35 AM	2 3	3	11:31 AM 11:32 AM	2 1	0	1
11:35 AIVI		2			0	2
	2 3	3	11:33 AM	1	1	1
11:36 AM		2	11:33 AM	1	0	
11:36 AM	2		11:34 AM	1	1	2
11:36 AM	1	1	11:34 AM	2	0	2
11:37 AM	2	2	11:35 AM	1	0	1
11:38 AM	1	1	11:36 AM	0	0	0
11:39 AM	2	2	11:36 AM	0	2	2
11:39 AM	1	1	11:37 AM	2	0	2
11:41 AM	0	0	11:37 AM	1	0	1
11:41 AM	1	1	11:39 AM	0	0	0
11:41 AM	2	2	11:40 AM	0	1	1
11:42 AM	1	1	11:40 AM	1	0	1
11:42 AM	0	0	11:41 AM	1	1	2
11:44 AM	1	1	11:41 AM	2	0	2
11:45 AM	2	2	11:41 AM	1	1	2
11:46 AM	3	3	11:41 AM	2	0	2
11:47 AM	2	2	11:42 AM	1	0	1
11:47 AM	1	1	11:42 AM	1	1	2
11:47 AM	0	0	11:43 AM	2	2	4
11:48 AM	1	1	11:43 AM	4	2	6
11:48 AM	0	0	11:43 AM	5	0	5
11:48 AM	1	1	11:45 AM	4	0	4
11:49 AM	0	0	11:46 AM	3	0	3
11:49 AM	1	1	11:46 AM	3	1	4
11:50 AM	2	2	11:46 AM	4	0	4
11:51 AM	3	3	11:47 AM	3	0	3
11:52 AM	2	2	11:48 AM	2	1	3
11:52 AM	3	3	11:48 AM	3	0	3
11:53 AM	2	2	11:49 AM	2	0	2
11:53 AM	1	1	11:50 AM	1	1	2
11:53 AM	2	2	11:50 AM	2	0	2
11:54 AM	1	1	11:50 AM	2	1	3
11:54 AM	2	2	11:50 AM	3	0	3

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12:11 PM       2       2       12:05 PM       3       1       4         12:11 PM       3       12:05 PM       4       0       4         12:11 PM       2       2       12:06 PM       3       0       3         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       2       2       12:07 PM       4       0       4         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       0       0       12:07 PM       4       0       4         12:12 PM       1       1       12:08 PM       4       1       5         12:13 PM       2       2       12:09 PM       5       0       5         12:14 PM       3       3       12:10 PM       3       0       3	12:10 PM	2	2	12:04 PM	5	0	5
12:11 PM       3       3       12:05 PM       4       0       4         12:11 PM       2       2       12:06 PM       3       0       3         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       2       2       12:07 PM       4       0       4         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       0       0       12:07 PM       4       0       4         12:12 PM       1       1       12:08 PM       4       1       5         12:13 PM       2       2       12:09 PM       5       0       5         12:14 PM       3       3       12:10 PM       3       0       3	12:10 PM	3	3	12:04 PM	4	0	4
12:11 PM       2       2       12:06 PM       3       0       3         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       2       2       12:07 PM       4       0       4         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       0       0       12:07 PM       4       0       4         12:12 PM       1       1       12:08 PM       4       1       5         12:13 PM       2       2       12:09 PM       5       0       5         12:14 PM       3       3       12:10 PM       3       0       3	12:11 PM	2	2	12:05 PM	3	1	4
12:12 PM         1         1         12:07 PM         3         1         4           12:12 PM         2         2         12:07 PM         4         0         4           12:12 PM         1         1         12:07 PM         3         1         4           12:12 PM         0         0         12:07 PM         4         0         4           12:12 PM         1         1         12:08 PM         4         1         5           12:13 PM         2         2         12:09 PM         5         0         5           12:14 PM         3         3         12:10 PM         3         0         3	12:11 PM	3	3	12:05 PM	4	0	4
12:12 PM       2       2       12:07 PM       4       0       4         12:12 PM       1       1       12:07 PM       3       1       4         12:12 PM       0       0       12:07 PM       4       0       4         12:12 PM       1       1       12:08 PM       4       1       5         12:13 PM       2       2       12:09 PM       5       0       5         12:14 PM       3       3       12:10 PM       3       0       3	12:11 PM	2	2	12:06 PM	3	0	3
12:12 PM         1         1         12:07 PM         3         1         4           12:12 PM         0         0         12:07 PM         4         0         4           12:12 PM         1         1         12:08 PM         4         1         5           12:13 PM         2         2         12:09 PM         5         0         5           12:14 PM         3         3         12:10 PM         3         0         3	12:12 PM	1	1	12:07 PM	3	1	4
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12:13 PM         2         2         12:09 PM         5         0         5           12:14 PM         3         3         12:10 PM         3         0         3	12:12 PM	0	0	12:07 PM	4	0	4
12:14 PM 3 3 12:10 PM 3 0 3	12:12 PM	1	1	12:08 PM	4	1	5
	12:13 PM	2	2	12:09 PM	5	0	5
	12:14 PM	3	3	12:10 PM	3	0	3
12.14FIVI    4	12:14 PM	4	4	12:10 PM	3	2	5
12:15 PM 5 5 12:10 PM 4 0 4	12:15 PM	5	5	12:10 PM		0	4

12:15 PM	6	6	12:11 PM	3	0	3
12:16 PM	7	7	12:11 PM	3	2	5
12:17 PM	6	6	12:11 PM	5	0	5
12:17 PM	7	7	12:12 PM	4	0	4
12:18 PM	6	6	12:12 PM	4	1	5
12:18 PM	5	5	12:12 PM	4	0	4
12:18 PM	6	6	12:13 PM	3	0	3
12:19 PM	5	5	12:13 PM	3	3	6
12:19 PM	6	6	12:13 PM	6	0	6
12:19 PM	5	5	12:14 PM	4	0	4
12:19 PM	6	6	12:15 PM	4	1	5
12:20 PM	5	5	12:15 PM	4	0	4
12:20 PM	6	6	12:15 PM	3	0	3
12:20 PM	7	7	12:17 PM	3	3	6
12:20 PM	6	6	12:17 PM	6	0	6
12:21 PM	5	5	12:17 PM	5	0	5
12:21 PM	6	6	12:18 PM	5	3	8
12:21 PM	5	5	12:18 PM	8	0	8
12:22 PM	4	4	12:19 PM	6	0	6
12:22 PM	3	3	12:19 PM	6	2	8
12:22 PM	2	2	12:20 PM	7	0	7
12:22 PM	3	3	12:20 PM	6	0	6
12:23 PM	2	2	12:20 PM	4	0	4
12:23 PM	3	3	12:21 PM	3	0	3
12:23 PM	2	2	12:21 PM	2	0	2
12:23 PM	1	1	12:21 PM	2	2	4
12:24 PM	0	0	12:22 PM	4	2	6
12:24 PM	1	1	12:22 PM	6	0	6
12:24 PM	2	2	12:22 PM	5	0	5
12:25 PM	1	1	12:23 PM	4	0	4
12:25 PM	2	2	12:23 PM	4	2	6
12:25 PM	3	3	12:23 PM	6	0	6
12:26 PM	4	4	12:24 PM	4	0	4
12:26 PM	5	5	12:25 PM	2	0	2
12:26 PM	4	4	12:26 PM	0	3	3
12:26 PM	3	3	12:26 PM	3	0	3
12:27 PM	4	4	12:27 PM	2	2	4
12:27 PM	3	3	12:27 PM	4	0	4
12:28 PM	4	4	12:27 PM	3	0	3
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12:29 PM	12:28 PM	5	5	12:29 PM	2	0	2
12:29 PM	12:29 PM	4	4	12:29 PM	1	0	1
12:30 PM	12:29 PM	5	5	12:29 PM	1	2	3
12:30 PM	12:29 PM	4	4	12:29 PM	3	0	3
12:30 PM	12:30 PM	3	3	12:30 PM	2	2	4
12:31 PM	12:30 PM	2	2	12:30 PM	4	0	4
12:31 PM	12:30 PM	5	5	12:31 PM	2	0	2
12:31 PM	12:31 PM	4	4	12:32 PM	1	0	1
12:31 PM	12:31 PM	3	3	12:32 PM	1	3	4
12:31 PM         4         4         12:33 PM         3         1         4           12:32 PM         3         3         12:34 PM         4         0         4           12:33 PM         5         5         5         12:35 PM         1         0         1           12:33 PM         4         4         12:35 PM         1         0         1         1           12:34 PW         5         5         12:35 PM         1         1         2         0         2           12:34 PW         5         5         12:35 PM         1         0         1         1         1         2         0         2         2         0         2         2         0         2         2         0         2         2         0         2         2         0         2         2         0         2         2         0         2         2         0         2         2         0         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	12:31 PM	2	2	12:32 PM	4	0	4
12:32 PM 12:32 PM 14 12:34 PM 2 0 2 0 2 12:33 PM 5 5 5 12:35 PM 1 1 0 1 1:2:35 PM 1 1 1 2 12:34 PM 5 5 5 12:35 PM 1 1 1 1 2 12:34 PM 5 5 5 12:35 PM 1 1 0 1 1 1 2 12:34 PM 5 5 5 12:35 PM 1 0 1 1 1 1 2 12:34 PM 5 5 5 12:35 PM 1 0 1 1 1 1 1 1 2 12:34 PM 5 5 5 12:35 PM 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12:31 PM	3	3	12:33 PM	3	0	3
12:32 PM         4         4         12:34 PM         2         0         2           12:33 PM         5         5         12:35 PM         1         0         1           12:33 PM         4         4         12:35 PM         1         1         1         2           12:34 PM         5         5         12:35 PM         2         0         0         2           12:34 PM         6         6         12:36 PM         1         0         1	12:31 PM	4	4	12:33 PM	3	1	4
12:33 PM	12:32 PM	3	3	12:34 PM	4	0	4
12:33 PM         4         4         12:35 PM         1         1         2           12:34 PM         5         5         12:35 PM         2         0         2           12:34 PM         6         6         6         12:35 PM         1         0         1           12:35 PM         5         5         12:37 PM         0         1         1           12:35 PM         6         6         6         12:37 PM         1         0         1           12:35 PM         5         5         12:38 PM         1         1         1         2           12:35 PM         4         4         12:38 PM         2         0         2         2           12:35 PM         3         3         12:39 PM         1         0         1	12:32 PM	4	4	12:34 PM	2	0	2
12:34 PM         5         5         12:35 PM         2         0         2           12:34 PM         6         6         12:36 PM         1         0         1           12:35 PM         5         5         12:37 PM         0         1         1           12:35 PM         6         6         12:37 PM         1         0         1           12:35 PM         5         5         12:38 PM         1         1         1         2           12:35 PM         4         4         12:38 PM         2         0         2         2           12:35 PM         3         3         12:39 PM         1         0         1         1         1         2         2         1	12:33 PM	5	5	12:35 PM	1	0	1
12:34 PM         6         6         12:36 PM         1         0         1           12:35 PM         5         5         12:37 PM         0         1         1           12:35 PM         6         6         6         12:37 PM         1         0         1           12:35 PM         5         5         12:38 PM         1         1         2           12:35 PM         4         4         12:38 PM         2         0         2           12:35 PM         3         3         12:39 PM         1         0         1           12:35 PM         4         4         12:39 PM         0         1         1         1           12:37 PM         5         5         5         12:39 PM         1         0         1         1           12:37 PM         4         4         12:40 PM         0         0         0         0         0           12:37 PM         5         5         12:41 PM         0         1         1         1         1         1         1         1         1         1         1         1         1         1         2         3         3         12	12:33 PM	4	4	12:35 PM	1	1	2
12:34 PM         5         5         12:37 PM         0         1         1         1           12:35 PM         6         6         12:37 PM         1         0         1           12:35 PM         5         5         12:38 PM         1         1         2           12:35 PM         4         4         12:38 PM         2         0         2           12:35 PM         3         3         12:39 PM         1         0         1         1           12:35 PM         4         4         12:39 PM         0         1	12:34 PM	5	5	12:35 PM	2	0	2
12:35 PM         6         6         12:37 PM         1         0         1           12:35 PM         5         5         12:38 PM         1         1         2           12:35 PM         4         4         12:38 PM         2         0         2           12:35 PM         3         3         12:39 PM         1         0         1           12:35 PM         4         4         12:39 PM         0         1         1           12:35 PM         5         5         12:39 PM         1         0         1         1           12:37 PM         4         4         12:40 PM         0         0         0         0         0         0         0         1	12:34 PM	6	6	12:36 PM	1	0	1
12:35 PM         5         5         12:38 PM         1         1         2           12:35 PM         4         4         12:38 PM         2         0         2           12:35 PM         3         3         12:39 PM         1         0         1           12:35 PM         4         4         12:39 PM         0         1         1           12:37 PM         5         5         12:39 PM         0         0         0         0           12:37 PM         4         4         12:40 PM         0         1         1         1         1           12:37 PM         5         5         12:41 PM         0         1	12:34 PM	5	5	12:37 PM	0	1	1
12:35 PM         4         4         12:38 PM         2         0         2           12:35 PM         3         3         12:39 PM         1         0         1           12:35 PM         4         4         12:39 PM         0         1         1         1           12:36 PM         5         5         12:39 PM         1         0         0         1           12:37 PM         4         4         12:40 PM         0         0         0         0           12:37 PM         5         5         12:41 PM         0         1         1         1           12:37 PM         4         4         12:41 PM         1         0         1         1           12:37 PM         3         3         12:42 PM         1         2         3         1         1         1         1         1         1         1         1         1         1         1         1         1         2         3         3         12:42 PM         1         2         3         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>12:35 PM</td> <td>6</td> <td></td> <td>12:37 PM</td> <td>1</td> <td>0</td> <td>1</td>	12:35 PM	6		12:37 PM	1	0	1
12:35 PM         3         3         12:39 PM         1         0         1           12:35 PM         4         4         12:39 PM         0         1         1           12:36 PM         5         5         12:39 PM         1         0         1           12:37 PM         4         4         12:40 PM         0         0         0           12:37 PM         5         5         12:41 PM         0         1         1           12:37 PM         4         4         12:41 PM         1         0         1           12:37 PM         3         3         12:42 PM         1         2         3           12:38 PM         2         2         12:42 PM         3         0         3           12:39 PM         3         3         12:43 PM         1         0         1           12:39 PM         2         2         12:45 PM         0         0         0           12:39 PM         1         1         12:46 PM         0         4         4           12:39 PM         2         2         12:45 PM         0         0         4           12:40 PM         1 <td>12:35 PM</td> <td>5</td> <td>5</td> <td>12:38 PM</td> <td>1</td> <td>1</td> <td></td>	12:35 PM	5	5	12:38 PM	1	1	
12:35 PM       4       4       12:39 PM       0       1       1         12:36 PM       5       5       12:39 PM       1       0       1         12:37 PM       4       4       12:40 PM       0       0       0         12:37 PM       5       5       12:41 PM       0       1       1         12:37 PM       4       4       12:41 PM       1       0       1         12:37 PM       3       3       12:42 PM       1       2       3         12:38 PM       2       2       12:42 PM       3       0       3         12:39 PM       3       3       12:43 PM       1       0       1         12:39 PM       2       2       12:45 PM       0       0       0         12:39 PM       1       1       12:46 PM       0       4       4         12:40 PM       0       0       4       4       4         12:40 PM       1       1       12:47 PM       3       0       3         12:40 PM       0       0       12:47 PM       2       0       2         12:41 PM       1       1       12:48	12:35 PM	4	4	12:38 PM	2	0	2
12:36 PM         5         5         12:39 PM         1         0         1           12:37 PM         4         4         12:40 PM         0         0         0           12:37 PM         5         5         12:41 PM         0         1         1           12:37 PM         4         4         12:41 PM         1         0         1           12:37 PM         3         3         12:42 PM         1         2         3           12:38 PM         2         2         12:42 PM         3         0         3           12:39 PM         3         3         12:43 PM         1         0         1           12:39 PM         2         2         12:45 PM         0         0         0           12:39 PM         1         1         12:46 PM         0         4         4           12:39 PM         2         2         12:46 PM         0         4         4           12:40 PM         1         1         12:47 PM         3         0         3           12:40 PM         0         0         12:47 PM         2         0         2           12:41 PM         1 <td>12:35 PM</td> <td>3</td> <td>3</td> <td>12:39 PM</td> <td>1</td> <td>0</td> <td>1</td>	12:35 PM	3	3	12:39 PM	1	0	1
12:37 PM         4         4         12:40 PM         0         0         0           12:37 PM         5         5         12:41 PM         0         1         1           12:37 PM         4         4         12:41 PM         1         0         1           12:37 PM         3         3         12:42 PM         1         2         3           12:38 PM         2         2         12:42 PM         3         0         3           12:39 PM         3         3         12:43 PM         1         0         1           12:39 PM         2         2         12:45 PM         0         0         0           12:39 PM         1         1         12:46 PM         0         4         4           12:39 PM         2         2         12:46 PM         0         4         4           12:39 PM         1         1         12:46 PM         0         4         4           12:40 PM         1         1         12:47 PM         3         0         3           12:40 PM         0         0         12:47 PM         2         0         2           12:41 PM         1 <td>12:35 PM</td> <td></td> <td></td> <td>12:39 PM</td> <td>0</td> <td>1</td> <td>1</td>	12:35 PM			12:39 PM	0	1	1
12:37 PM         5         5         12:41 PM         0         1         1         1           12:37 PM         4         4         12:41 PM         1         0         1         1           12:37 PM         3         3         12:42 PM         1         2         3         3         12:43 PM         1         2         3         3         12:43 PM         1         0         3         3         12:43 PM         1         0         1         1         1         0         1         1         1         1         1         0         0         3         3         12:43 PM         1         0         0         1         1         1         0         1	12:36 PM	5	5	12:39 PM	1	0	1
12:37 PM       4       4       12:41 PM       1       0       1         12:37 PM       3       3       12:42 PM       1       2       3         12:38 PM       2       2       12:42 PM       3       0       3         12:39 PM       3       3       12:43 PM       1       0       1         12:39 PM       2       2       12:45 PM       0       0       0       0         12:39 PM       1       1       12:46 PM       0       4       4       4         12:39 PM       2       2       12:46 PM       0       4       4       4         12:39 PM       1       1       12:46 PM       4       0       4       4         12:40 PM       2       2       12:46 PM       3       0       3       3         12:40 PM       1       1       12:47 PM       2       0       2       2         12:41 PM       1       1       12:48 PM       2       1       3       0       3       1         12:42 PM       0       0       12:48 PM       3       0       3       0       3       1       3	12:37 PM	4		12:40 PM	0	0	0
12:37 PM       3       3       12:42 PM       1       2       3         12:38 PM       2       2       12:42 PM       3       0       3         12:39 PM       3       3       12:43 PM       1       0       1         12:39 PM       2       2       12:45 PM       0       0       0       0         12:39 PM       1       1       12:46 PM       0       4       4       4         12:39 PM       2       2       12:46 PM       4       0       4       4         12:39 PM       2       2       12:46 PM       4       0       4       4         12:40 PM       1       1       12:47 PM       3       0       3       3         12:40 PM       0       0       12:47 PM       2       0       2       2         12:42 PM       0       0       12:48 PM       3       0       3       3         12:42 PM       1       1       12:48 PM       2       1       3         12:43 PM       2       1       3       0       2	12:37 PM	5		12:41 PM	0	1	1
12:38 PM       2       2       12:42 PM       3       0       3         12:39 PM       3       3       12:43 PM       1       0       1         12:39 PM       2       2       12:45 PM       0       0       0         12:39 PM       1       1       12:46 PM       0       4       4         12:39 PM       2       2       12:46 PM       4       0       4         12:40 PM       1       1       12:47 PM       3       0       3         12:40 PM       0       0       12:47 PM       2       0       2         12:41 PM       1       1       12:48 PM       2       1       3         12:42 PM       0       0       12:48 PM       3       0       3         12:42 PM       1       1       12:48 PM       2       1       3         12:43 PM       2       2       12:49 PM       2       0       2	12:37 PM			12:41 PM	1		
12:39 PM       3       3       12:43 PM       1       0       1         12:39 PM       2       2       12:45 PM       0       0       0         12:39 PM       1       1       12:46 PM       0       4       4         12:39 PM       2       2       12:46 PM       4       0       4         12:40 PM       1       1       12:47 PM       3       0       3         12:40 PM       0       0       12:47 PM       2       0       2         12:41 PM       1       1       12:48 PM       2       1       3         12:42 PM       0       0       12:48 PM       3       0       3         12:42 PM       1       1       12:48 PM       2       1       3         12:43 PM       2       2       12:49 PM       2       0       2	12:37 PM	3		12:42 PM		2	
12:39 PM       2       2       12:45 PM       0       0       0         12:39 PM       1       1       12:46 PM       0       4       4         12:39 PM       2       2       12:46 PM       4       0       4         12:40 PM       1       1       12:47 PM       3       0       3         12:40 PM       0       0       12:47 PM       2       0       2         12:41 PM       1       1       12:48 PM       2       1       3         12:42 PM       0       0       12:48 PM       3       0       3         12:42 PM       1       1       12:48 PM       2       1       3         12:43 PM       2       2       12:49 PM       2       0       2							3
12:39 PM       1       1       12:46 PM       0       4       4         12:39 PM       2       2       12:46 PM       4       0       4         12:40 PM       1       1       12:47 PM       3       0       3         12:40 PM       0       0       12:47 PM       2       0       2         12:41 PM       1       1       12:48 PM       2       1       3         12:42 PM       0       0       12:48 PM       3       0       3         12:42 PM       1       1       12:48 PM       2       1       3         12:43 PM       2       1       3       2       2						0	
12:39 PM         2         2         12:46 PM         4         0         4           12:40 PM         1         1         12:47 PM         3         0         3           12:40 PM         0         0         12:47 PM         2         0         2           12:41 PM         1         1         12:48 PM         2         1         3           12:42 PM         0         0         12:48 PM         3         0         3           12:42 PM         1         1         12:48 PM         2         1         3           12:43 PM         2         2         12:49 PM         2         0         2		2				-	
12:40 PM         1         1         12:47 PM         3         0         3           12:40 PM         0         0         12:47 PM         2         0         2           12:41 PM         1         1         12:48 PM         2         1         3           12:42 PM         0         0         12:48 PM         3         0         3           12:42 PM         1         1         12:48 PM         2         1         3           12:43 PM         2         2         12:49 PM         2         0         2							
12:40 PM         0         0         12:47 PM         2         0         2           12:41 PM         1         1         12:48 PM         2         1         3           12:42 PM         0         0         12:48 PM         3         0         3           12:42 PM         1         1         12:48 PM         2         1         3           12:43 PM         2         2         12:49 PM         2         0         2		2					
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12:42 PM         0         0         12:48 PM         3         0         3           12:42 PM         1         1         12:48 PM         2         1         3           12:43 PM         2         2         12:49 PM         2         0         2							
12:42 PM         1         1         12:48 PM         2         1         3           12:43 PM         2         2         12:49 PM         2         0         2							
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■ 12:44 PM    1							
	12:44 PM	1	1	12:49 PM	1	1	2

12:45 PM							
12:45 PM	12:45 PM	0	0	12:50 PM	2	0	2
12:47 PM	12:45 PM	1	1	12:51 PM	1	1	2
12:47 PM	12:45 PM	0	0	12:51 PM	2	0	2
12:48 PM	12:47 PM	1	1	12:52 PM	0	1	1
12:48 PM	12:47 PM	2	2	12:52 PM	1	0	1
12:48 PM	12:48 PM	1	1	12:53 PM	1	1	2
12:49 PM	12:48 PM	0	0	12:53 PM	2	0	2
12:49 PM	12:48 PM	1	1	12:54 PM	2	1	3
12:49 PM	12:49 PM	2	2	12:54 PM	3	0	3
12:50 PM	12:49 PM	1	1	12:54 PM	2	0	2
12:51 PM         2         2         12:56 PM         2         0         2           12:51 PM         1         1         12:56 PM         1         2         3           12:52 PM         2         2         12:57 PM         3         0         3           12:52 PM         3         3         12:57 PM         2         0         2           12:52 PM         2         2         12:58 PM         1         1         1         2           12:52 PM         1         1         12:58 PM         2         0         2         2           12:53 PM         0         0         12:59 PM         2         1         1         3           12:55 PM         1         1         12:59 PM         2         1         1         3         12:55 PM         2         2         12:59 PM         3         0         3         12:55 PM         3         0         3         12:55 PM         3         0         3         3         12:59 PM         3         0         0         3         12:55 PM         3         0         0         3         12:55 PM         3         3         12:59 PM         5	12:49 PM	2	2	12:55 PM	1	2	3
12:51 PM	12:50 PM	1	1	12:55 PM	3	0	3
12:52 PM         2         2         12:57 PM         3         0         3           12:52 PM         3         3         12:57 PM         2         0         2           12:52 PM         1         1         1         2         0         2           12:52 PM         1         1         12:58 PM         2         0         2           12:53 PM         0         0         12:59 PM         2         1         3           12:54 PM         1         1         12:59 PM         2         1         3           12:55 PM         2         2         12:59 PM         3         0         3           12:55 PM         2         2         12:59 PM         3         2         5           12:56 PM         3         3         12:59 PM         5         0         5           12:56 PM         2         2         1:00 PM         4         0         4           12:56 PM         1         1         1:00 PM         3         0         3           12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         3	12:51 PM	2	2	12:56 PM	2	0	2
12:52 PM	12:51 PM	1	1	12:56 PM	1	2	3
12:52 PM         2         2         12:58 PM         1         1         2           12:52 PM         1         1         12:58 PM         2         0         2           12:53 PM         0         0         12:59 PM         2         1         3           12:54 PM         1         1         12:59 PM         3         0         3           12:55 PM         2         2         12:59 PM         3         2         5           12:56 PM         2         2         12:59 PM         5         0         5           12:56 PM         2         2         1:00 PM         4         0         4           12:56 PM         1         1         1:00 PM         3         0         3           12:56 PM         2         2         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         3         3         1:01 PM         3         0         3           12:58 PM         1         1         1:02 PM         4         0         4           12:58 PM         1	12:52 PM	2	2	12:57 PM	3	0	3
12:52 PM         1         1         12:58 PM         2         0         2           12:53 PM         0         0         12:59 PM         2         1         3           12:54 PM         1         1         12:59 PM         3         0         3           12:55 PM         2         2         12:59 PM         5         0         5           12:56 PM         3         3         12:59 PM         5         0         5           12:56 PM         2         2         1:00 PM         4         0         4           12:56 PM         1         1         1:00 PM         3         0         3           12:56 PM         2         2         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         4         0         4           12:58 PM         1         1         1:02 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         0         3           12:58 PM         0	12:52 PM	3	3	12:57 PM	2	0	2
12:53 PM       0       0       12:59 PM       2       1       3         12:54 PM       1       1       12:59 PM       3       0       3         12:55 PM       2       2       12:59 PM       3       2       5         12:56 PM       3       3       12:59 PM       5       0       5         12:56 PM       2       2       1:00 PM       4       0       4       4         12:56 PM       1       1       1:00 PM       3       0       3       3       1:01 PM       3       0       3       3       1:01 PM       3       0       3       3       1:01 PM       4       0       4       4       1:02 PM       4       0       4       4       1:02 PM       4       0       4       4       1:02 PM       3       1:01 PM       3       1:01 PM       3       1:02 PM       4       0       4       4       1:02 PM       4       0       4       4       1:02 PM       3       1:02 PM       4       0       4       4       1:02 PM       3       1:02 PM       4       0       4       1:02 PM       4       1:03 PM       2       1:03 PM<	12:52 PM	2	2	12:58 PM	1	1	2
12:54 PM         1         1         12:59 PM         3         0         3           12:55 PM         2         2         12:59 PM         3         2         5           12:56 PM         3         3         12:59 PM         5         0         5           12:56 PM         2         2         1:00 PM         4         0         4           12:56 PM         1         1         1:00 PM         3         0         3           12:56 PM         2         2         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         2         2         1:01 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         1         4           12:58 PM         0         0         1:02 PM         3         0         3           12:59 PM         0         0         1:02 PM         4         0         4           12:58 PM         1         1         1:02 PM         3         0         3           12:59 PM         0	12:52 PM	1	1	12:58 PM	2	0	2
12:55 PM         2         2         12:59 PM         3         2         5           12:56 PM         3         3         12:59 PM         5         0         5           12:56 PM         2         2         1:00 PM         4         0         4           12:56 PM         1         1         1:00 PM         3         0         3           12:56 PM         2         2         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         2         2         1:01 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         1         4           12:58 PM         0         0         1:02 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         0         3           12:59 PM         0         0         1:02 PM         3         0         3           12:59 PM         1         1         1:02 PM         3         1         4           1:00 PM         1         <	12:53 PM	0	0	12:59 PM		1	3
12:56 PM       3       3       12:59 PM       5       0       5         12:56 PM       2       2       1:00 PM       4       0       4         12:56 PM       1       1       1:00 PM       3       0       3         12:56 PM       2       2       1:01 PM       2       2       4         12:57 PM       3       3       1:01 PM       4       0       4         12:57 PM       2       2       1:01 PM       3       0       3         12:58 PM       1       1       1:02 PM       3       1       4         12:58 PM       0       0       1:02 PM       4       0       4         12:58 PM       1       1       1:02 PM       3       0       3         12:59 PM       0       0       1:02 PM       4       0       4         12:59 PM       0       0       1:03 PM       2       1       3         12:59 PM       0       0       1:03 PM       2       1       3         1:00 PM       1       1       1:03 PM       3       1       4         1:00 PM       1       1	12:54 PM	1	1	12:59 PM	3	0	3
12:56 PM         2         2         1:00 PM         4         0         4           12:56 PM         1         1         1:00 PM         3         0         3           12:56 PM         2         2         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         2         2         1:01 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         1         4           12:58 PM         0         0         1:02 PM         4         0         4           12:58 PM         1         1         1:02 PM         3         0         3           12:59 PM         0         0         1:02 PM         3         0         3           12:59 PM         0         0         1:03 PM         2         1         3           1:00 PM         1         1         1:03 PM         3         1         4           1:00 PM         1         1         1:04 PM         3         1         4           1:01 PM         2         2	12:55 PM	2	2	12:59 PM		2	5
12:56 PM         1         1         1:00 PM         3         0         3           12:56 PM         2         2         1:01 PM         2         2         4           12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         2         2         1:01 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         1         4           12:58 PM         0         0         1:02 PM         4         0         4           12:58 PM         1         1         1:02 PM         3         0         3           12:59 PM         0         0         1:02 PM         3         0         3           1:00 PM         1         1         1:03 PM         2         1         3           1:00 PM         1         1         1:03 PM         3         1         4           1:00 PM         2         2         1:03 PM         4         0         4           1:01 PM         3         3         1:04 PM         4         1         5           1:02 PM         4         4 </td <td>12:56 PM</td> <td>3</td> <td>3</td> <td>12:59 PM</td> <td>5</td> <td>0</td> <td>5</td>	12:56 PM	3	3	12:59 PM	5	0	5
12:56 PM       2       2       1:01 PM       2       2       4         12:57 PM       3       3       1:01 PM       4       0       4         12:57 PM       2       2       1:01 PM       3       0       3         12:58 PM       1       1       1:02 PM       3       1       4         12:58 PM       0       0       1:02 PM       4       0       4         12:58 PM       1       1       1:02 PM       3       0       3         12:59 PM       0       0       1:03 PM       2       1       3         1:00 PM       1       1       1:03 PM       2       1       3         1:00 PM       2       2       1:03 PM       3       1       4         1:00 PM       1       1       1:04 PM       3       1       4         1:01 PM       2       2       1:04 PM       3       1       4         1:02 PM       4       4       1:05 PM       4       1       5         1:02 PM       4       4       1:05 PM       4       0       4         1:02 PM       4       4       1	12:56 PM	2	2	1:00 PM	4	0	4
12:57 PM         3         3         1:01 PM         4         0         4           12:57 PM         2         2         1:01 PM         3         0         3           12:58 PM         1         1         1:02 PM         3         1         4           12:58 PM         0         0         1:02 PM         4         0         4           12:58 PM         1         1         1:02 PM         3         0         3           12:59 PM         0         0         1:03 PM         2         1         3           1:00 PM         1         1         1:03 PM         3         1         4           1:00 PM         1         1         1:04 PM         3         1         4           1:01 PM         2         2         1:04 PM         3         1         4           1:02 PM         4         4         1:05 PM         4         0         5           1:02 PM         4         4         1:05 PM         4         0         4           1:03 PM         5         5         1:05 PM         2         1         3           1:04 PM         4         1:06	12:56 PM	1	1	1:00 PM	3	0	3
12:57 PM       2       2       1:01 PM       3       0       3         12:58 PM       1       1       1:02 PM       3       1       4         12:58 PM       0       0       1:02 PM       4       0       4         12:58 PM       1       1       1:02 PM       3       0       3         12:59 PM       0       0       1:03 PM       2       1       3         1:00 PM       1       1       1:03 PM       3       1       4         1:00 PM       2       2       1:03 PM       4       0       4         1:00 PM       1       1       1:04 PM       3       1       4         1:01 PM       2       2       1:04 PM       4       1       5         1:02 PM       4       4       1:05 PM       4       0       4         1:03 PM       5       5       1:05 PM       2       1       3         1:04 PM       4       4       1:06 PM       3       0       3         1:04 PM       5       5       1:07 PM       3       2       5	12:56 PM	2		1:01 PM	2	2	4
12:58 PM       1       1       1:02 PM       3       1       4         12:58 PM       0       0       1:02 PM       4       0       4         12:58 PM       1       1       1:02 PM       3       0       3         12:59 PM       0       0       1:03 PM       2       1       3         1:00 PM       1       1       1:03 PM       3       1       4         1:00 PM       2       2       1:03 PM       4       0       4         1:00 PM       1       1       1:04 PM       3       1       4         1:01 PM       2       2       1:04 PM       4       1       5         1:02 PM       4       4       1:05 PM       4       0       4         1:03 PM       5       5       1:05 PM       4       0       4         1:04 PM       4       4       1:06 PM       3       0       3         1:04 PM       5       5       1:07 PM       3       2       5	12:57 PM	3	3	1:01 PM	4	0	4
12:58 PM       0       0       1:02 PM       4       0       4         12:58 PM       1       1       1:02 PM       3       0       3         12:59 PM       0       0       1:03 PM       2       1       3         1:00 PM       1       1       1:03 PM       3       1       4         1:00 PM       2       2       1:03 PM       4       0       4         1:00 PM       1       1       1:04 PM       3       1       4         1:01 PM       2       2       1:04 PM       4       1       5         1:01 PM       3       3       1:04 PM       5       0       5         1:02 PM       4       4       1:05 PM       4       0       4         1:03 PM       5       5       1:05 PM       2       1       3         1:04 PM       4       4       1:06 PM       3       0       3         1:04 PM       5       5       1:07 PM       3       2       5	12:57 PM	2	2	1:01 PM	3	0	3
12:58 PM         1         1         1:02 PM         3         0         3           12:59 PM         0         0         1:03 PM         2         1         3           1:00 PM         1         1         1:03 PM         3         1         4           1:00 PM         2         2         1:03 PM         4         0         4           1:00 PM         1         1         1:04 PM         3         1         4           1:01 PM         2         2         1:04 PM         4         1         5           1:02 PM         4         4         1:05 PM         4         0         4           1:03 PM         5         5         1:05 PM         2         1         3           1:04 PM         4         4         1:06 PM         3         0         3           1:04 PM         5         5         1:07 PM         3         2         5	12:58 PM	1	1	1:02 PM	3	1	4
12:59 PM         0         0         1:03 PM         2         1         3           1:00 PM         1         1         1:03 PM         3         1         4           1:00 PM         2         2         1:03 PM         4         0         4           1:00 PM         1         1         1:04 PM         3         1         4           1:01 PM         2         2         1:04 PM         4         1         5           1:01 PM         3         3         1:04 PM         5         0         5           1:02 PM         4         4         1:05 PM         4         0         4           1:03 PM         5         5         1:05 PM         2         1         3           1:04 PM         4         4         1:06 PM         3         0         3           1:04 PM         5         5         1:07 PM         3         2         5	12:58 PM	0	0	1:02 PM	4	0	
1:00 PM       1       1       1:03 PM       3       1       4         1:00 PM       2       2       1:03 PM       4       0       4         1:00 PM       1       1       1:04 PM       3       1       4         1:01 PM       2       2       1:04 PM       4       1       5         1:01 PM       3       3       1:04 PM       5       0       5         1:02 PM       4       4       1:05 PM       4       0       4         1:03 PM       5       5       1:05 PM       2       1       3         1:04 PM       4       4       1:06 PM       3       0       3         1:04 PM       5       5       1:07 PM       3       2       5	12:58 PM			1:02 PM		0	
1:00 PM         2         2         1:03 PM         4         0         4           1:00 PM         1         1         1:04 PM         3         1         4           1:01 PM         2         2         1:04 PM         4         1         5           1:01 PM         3         3         1:04 PM         5         0         5           1:02 PM         4         4         1:05 PM         4         0         4           1:03 PM         5         5         1:05 PM         2         1         3           1:04 PM         4         4         1:06 PM         3         0         3           1:04 PM         5         5         1:07 PM         3         2         5	12:59 PM	0		1:03 PM		1	
1:00 PM         1         1         1:04 PM         3         1         4           1:01 PM         2         2         1:04 PM         4         1         5           1:01 PM         3         3         1:04 PM         5         0         5           1:02 PM         4         4         1:05 PM         4         0         4           1:03 PM         5         5         1:05 PM         2         1         3           1:04 PM         4         4         1:06 PM         3         0         3           1:04 PM         5         5         1:07 PM         3         2         5	1:00 PM	1		1:03 PM	3	1	4
1:01 PM       2       2       1:04 PM       4       1       5         1:01 PM       3       3       1:04 PM       5       0       5         1:02 PM       4       4       1:05 PM       4       0       4         1:03 PM       5       5       1:05 PM       2       1       3         1:04 PM       4       4       1:06 PM       3       0       3         1:04 PM       5       5       1:07 PM       3       2       5	1:00 PM	2		1:03 PM		0	4
1:01 PM     3     3     1:04 PM     5     0     5       1:02 PM     4     4     1:05 PM     4     0     4       1:03 PM     5     5     1:05 PM     2     1     3       1:04 PM     4     4     1:06 PM     3     0     3       1:04 PM     5     5     1:07 PM     3     2     5	1:00 PM	1		1:04 PM	3	1	
1:02 PM     4     4     1:05 PM     4     0     4       1:03 PM     5     5     1:05 PM     2     1     3       1:04 PM     4     4     1:06 PM     3     0     3       1:04 PM     5     5     1:07 PM     3     2     5	1:01 PM	2		1:04 PM		1	
1:03 PM         5         5         1:05 PM         2         1         3           1:04 PM         4         4         1:06 PM         3         0         3           1:04 PM         5         5         1:07 PM         3         2         5	1:01 PM	3		1:04 PM	5	0	5
1:04 PM     4     4     1:06 PM     3     0     3       1:04 PM     5     5     1:07 PM     3     2     5	1:02 PM			1:05 PM		0	
1:04 PM 5 5 1:07 PM 3 2 5	1:03 PM	5	5	1:05 PM	2	1	
	1:04 PM	4		1:06 PM		0	
1:04 PM 4 4 1:07 PM 5 0 5	1:04 PM	5	5	1:07 PM		2	
	1:04 PM	4	4	1:07 PM	5	0	5

1:05 PM	3	3	1:07 PM	3	1	4
1:05 PM	4	4	1:08 PM	4	0	4
1:05 PM	5	5	1:08 PM	3	0	3
1:05 PM	6	6	1:09 PM	3	1	4
1:06 PM	5	5	1:09 PM	4	0	4
1:07 PM	6	6	1:10 PM	3	0	3
1:07 PM	5	5	1:11 PM	2	0	2
1:08 PM	6	6	1:11 PM	1	1	2
1:08 PM	5	5	1:12 PM	2	0	2
1:08 PM	6	6	1:12 PM	1	0	1
1:09 PM	7	7	1:13 PM	1	1	2
1:09 PM	6	6	1:13 PM	2	0	2
1:10 PM	5	5	1:14 PM	1	0	1
1:11 PM	6	6	1:15 PM	0	0	0
1:11 PM	7	7	1:16 PM	0	1	1
1:11 PM	6	6	1:16 PM	1	0	1
1:12 PM	7	7	1:17 PM	0	0	0
1:12 PM	6	6	1:17 PM	0	1	1
1:13 PM	5	5	1:17 PM	1	0	1
1:14 PM	6	6	1:18 PM	1	1	2
1:14 PM	5	5	1:18 PM	2	0	2
1:15 PM	4	4	1:18 PM	1	0	1
1:15 PM	5	5	1:19 PM	0	0	0
1:15 PM	4	4	1:20 PM	0	1	1
1:16 PM	5	5	1:20 PM	1	0	1
1:17 PM	4	4	1:21 PM	0	0	0
1:17 PM	3	3	1:22 PM	0	1	1
1:18 PM	4	4	1:23 PM	1	0	1
1:19 PM	3	3	1:23 PM	1	1	2
1:19 PM	4	4	1:23 PM	1	0	1
1:19 PM	3	3	1:24 PM	1	1	2
1:20 PM	4	4	1:24 PM	1	0	1
1:21 PM	3	3	1:25 PM	0	0	0
1:21 PM	2	2	1:26 PM	0	1	1
1:22 PM	1	1	1:26 PM	1	2	3
1:23 PM	0	0	1:27 PM	3	1	4
1:23 PM	1	1	1:27 PM	4	0	4
1:24 PM	2	2	1:27 PM	3	0	3
1:25 PM	3	3	1:28 PM	2	0	2
1:25 PM	2	2	1:29 PM	2	1	3
1:26 PM	1	1	1:29 PM	3	0	3

1:27 PM	0	0	1:29 PM	2	1	3
1:27 PM	1	1	1:29 PM	3	0	3
1:28 PM	2	2	1:30 PM	2	0	2
1:29 PM	1	1	1:31 PM	1	1	2
1:29 PM	2	2	1:31 PM	2	0	2
1:30 PM	1	1	1:33 PM	1	2	3
1:30 PM	2	2	1:33 PM	1	2	3
1:30 PM	1	1	1:34 PM	3	1	4
1:31 PM	0	0	1:34 PM	3	0	3
1:31 PM	1	1	1:35 PM	2	1	3
1:33 PM	0	0	1:34 PM	3	0	3
1:33 PM	1	1	1:35 PM	2	1	3
1:34 PM	2	2	1:35 PM	3	0	3
1:35 PM	2	2	1:36 PM	2	1	3
1:35 PM	1	1	1:36 PM	3	0	3
1:36 PM	2	2	1:36 PM	2	0	2
1:36 PM	1	1	1:37 PM	1	2	3
1:36 PM	2	2	1:37 PM	5	0	5
1:37 PM	1	1	1:38 PM	3	1	4
1:37 PM	2	2	1:38 PM	4	0	4
1:38 PM	1	1	1:39 PM	4	1	5
1:38 PM	0	0	1:40 PM	4	0	4
1:41 PM	1	1	1:41 PM	3	2	5
1:42 PM	2	2	1:42 PM	5	0	5
1:43 PM	3	3	1:42 PM	4	0	4
1:43 PM	4	4	1:43 PM	4	1	5
1:43 PM	3	3	1:43 PM	5	0	5
1:44 PM	2	2	1:43 PM	5	0	5
1:44 PM	3	3	1:43 PM	3	0	3
1:44 PM	4	4	1:44 PM	2	1	3
1:46 PM	5	5	1:44 PM	3	0	3
1:46 PM	6	6	1:44 PM	2	0	2
1:48 PM	5	5	1:46 PM	0	0	0
1:49 PM	4	4	1:48 PM	0	1	1
1:50 PM	3	3	1:48 PM	1	0	1
1:50 PM	2	2	1:50 PM	0	1	1
1:50 PM	3	3	1:50 PM	1	0	1
1:50 PM	2	2	1:51 PM	0	2	2
1:51 PM	1	1	1:52 PM	2	0	2
1:51 PM	2	2	1:53 PM	2	2	4
1:52 PM	1	1	1:53 PM	4	0	4

1:53 PM	0	0	1:53 PM	3	0	3
1:53 PM	1	1	1:54 PM	3	1	4
1:54 PM	0	0	1:54 PM	3	0	3
1:54 PM	1	1	1:55 PM	1	0	1
1:55 PM	2	2	1:56 PM	1	1	2
1:53 PM	3	3	1:56 PM	2	0	2
1:55 PM	2	2	1:56 PM	1	0	1
1:56 PM	3	3	1:57 PM	0	1	1
1:57 PM	2	2	1:57 PM	1	0	1
1:57 PM	3	3	1:58 PM	0	0	0
1:57 PM	2	2	1:58 PM	0	1	1
1:58 PM	1	1	1:59 PM	1	0	1
1:58 PM	2	2	1:59 PM	1	1	2
1:59 PM	1	1	1:59 PM	2	0	2
1:59 PM	0	0	2:00 PM	0	0	0

## Drive-thru Queue Study

Date: 9/29/2020

Location: Raising Canes - 10142 Adams Avenue

City: Huntington Beach, CA Day: Tuesday

Time	Number of Cars In Zone 1	Total	Time	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
4:00 PM	1	1	4:00 PM	3	0	3
4:01 PM	2	2	4:01 PM	1	0	1
4:01 PM	3	3	4:01 PM	0	1	1
4:01 PM	2	2	4:02 PM	1	0	1
4:01 PM	3	3	4:02 PM	1	1	2
4:03 PM	4	4	4:02 PM	2	0	2
4:03 PM	3	3	4:03 PM	1	0	1
4:03 PM	4	4	4:03 PM	0	1	1
4:04 PM	3	3	4:04 PM	1	0	1
4:04 PM	2	2	4:06 PM	0	0	0
4:06 PM	3	3	4:06 PM	0	1	1
4:08 PM	4	4	4:06 PM	1	0	1
4:10 PM	5	5	4:07 PM	1	1	2
4:10 PM	6	6	4:07 PM	1	0	1
4:11 PM	5	5	4:08 PM	1	1	2
4:12 PM	4	4	4:08 PM	2	0	2
4:12 PM	5	5	4:10 PM	1	0	1
4:12 PM	6	6	4:10 PM	0	0	0
4:13 PM	5	5	4:11 PM	0	2	2
4:14 PM	6	6	4:11 PM	2	0	2
4:15 PM	5	5	4:12 PM	0	1	1
4:16 PM	4	4	4:13 PM	1	0	1
4:17 PM	3	3	4:14 PM	0	0	0
4:18 PM	2	2	4:18 PM	0	1	1
4:19 PM	3	3	4:18 PM	1	0	1
4:19 PM	2	2	4:19 PM	0	1	1
4:20 PM	3	3	4:19 PM	1	0	1
4:21 PM	2	2	4:20 PM	0	0	0
4:22 PM	1	1	4:22 PM	0	1	1
4:23 PM	0	0	4:22 PM	1	0	1

4:24 PM	1	1	4:23 PM	0	0	0
4:24 PM	0	0	4:24 PM	0	1	1
4:24 PM	1	1	4:24 PM	1	0	1
4:26 PM	0	0	4:24 PIVI 4:25 PM	0	0	0
4:31 PM	1	1	4:29 PM	0	1	1
4:32 PM	0	0	4:29 PM	1	0	1
4:32 PM	1	1	4:29 PIVI 4:30 PM	1	1	2
4:33 PM	0	0	4:30 PM	2	0	2
4:34 PM	1	1	4:31 PM	1	0	1
4:35 PM	2	2	4:32 PM	1	1	2
4:35 PM	1	1	4:32 PM	1	0	1
	0	0	4:34 PM		1	1
4:37 PM 4:37 PM		1	4:34 PM	0 1	0	1
	0	0	4:35 PM	0	0	0
4:38 PM	1	1	4:35 PM		1	1
4:39 PM 4:42 PM	2	2		0 1	0	1
	3	3	4:36 PM	1	1	2
4:43 PM		4	4:37 PM 4:37 PM			1
4:44 PM 4:44 PM	<u>4</u> 5	5	4:38 PM	1 0	0	0
		4	4:36 PIVI 4:41 PM	0	1	1
4:46 PM 4:46 PM	3	3	4:41 PM	1	0	1
4:48 PM	4	4	4:41 PM	1	2	3
4:49 PM	5	5	4:41 PM	3	0	3
4:49 PM	4	4	4:42 PM	2	0	2
4:50 PM	5	5	4:42 PIVI 4:43 PM	2	1	3
4:50 PM	6	6	4:43 PM	2	0	2
4:50 PM	5	5	4:44 PM	0	0	0
4:51 PM	4	4	4:44 PW	0	1	1
4:51 PM	5	5	4:45 PM	1	0	1
4:51 PM	6	6	4:46 PM	1	2	3
4:54 PM	5	5	4:46 PM	3	0	3
4:54 PM	6	6	4:47 PM	3	1	4
4:54 PM	5	5	4:47 PM	4	0	4
4:55 PM	6	6	4:48 PM	3	0	3
4:55 PM	5	5	4:48 PM	3	2	5
4:55 PM	5	5	4:49 PM	5	0	5
4:57 PM	4	4	4:49 PM	3	0	3
4:57 PM	5	5	4:50 PM	2	0	2
4:57 PM	6	6	4:51 PM	1	0	1
4:58 PM	5	5	4:51 PM	0	1	1
5:00 PM	5	5	4:51 PM	1	0	1
0.001101	<u> </u>	J	1.011101	'	<u> </u>	'

5:01 PM	4	4	4:53 PM	0	0	0
5:01 PM	3	3	4:54 PM	0	1	1
5:02 PM	4	4	4:54 PM	1	0	1
5:03 PM	5	5	4:55 PM	0	0	0
5:03 PM	4	4	4:55 PM	0	2	2
5:03 PM	3	3	4:55 PM	2	1	3
5:04 PM	4	4	4:56 PM	3	0	3
5:04 PM	3	3	4:57 PM	1	0	1
5:04 PM	2	2	4:58 PM	0	0	0
5:05 PM	3	3	4:59 PM	0	1	1
5:06 PM	2	2	4:59 PM	1	0	1
5:06 PM	3	3	5:00 PM	1	1	2
5:07 PM	2	2	5:00 PM	2	0	2
5:10 PM	1	1	5:02 PM	1	0	1
5:10 PM	0	0	5:02 PM	0	1	1
5:11 PM	1	1	5:02 PM	1	0	1
5:11 PM	0	0	5:03 PM	1	1	2
5:12 PM	1	1	5:03 PM	2	0	2
5:13 PM	2	2	5:04 PM	1	0	1
5:13 PM	1	1	5:04 PM	1	1	2
5:13 PM	2	2	5:04 PM	2	0	2
5:14 PM	1	1	5:05 PM	1	0	1
5:14 PM	2	2	5:06 PM	0	0	0
5:15 PM	1	1	5:09 PM	0	1	1
5:16 PM	0	0	5:09 PM	1	0	1
5:16 PM	1	1	5:10 PM	1	3	4
5:17 PM	2	2	5:10 PM	4	0	4
5:18 PM	3	3	5:11 PM	3	0	3
5:19 PM	2	2	5:11 PM	3	1	4
5:19 PM	3	3	5:11 PM	4	0	4
5:20 PM	2	2	5:12 PM	3	0	3
5:20 PM	1	1	5:11 PM	4	0	4
5:20 PM	0	0	5:12 PM	3	0	3
5:20 PM	1	1	5:12 PM	3	2	5
5:21 PM	2	2	5:13 PM	5	0	5
5:22 PM	1	1	5:13 PM	4	0	4
5:22 PM	0	0	5:14 PM	2	0	2
5:23 PM	1	1	5:15 PM	1	1	2
5:23 PM	2	2	5:16 PM	2	0	2
5:24 PM	3	3	5:17 PM	1	1	2
5:25 PM	4	4	5:17 PM	2	0	2

5:26 PM	3	3	5:18 PM	1	0	1
5:27 PM	4	4	5:18 PM	1	2	3
5:27 PIVI 5:28 PM	5	5	5:18 PM	3	0	3
5:28 PM	6	6	5:19 PM	3	1	4
5:28 PM	5	5	5:19 PM	4	0	4
5:29 PM	6	6	5:19 PM	3	3	6
5:29 PM	7	7	5:19 PM	6	0	6
5:30 PM	6	6	5:20 PM	5	0	5
5:30 PM	7	7	5:21 PM	4	0	4
5:30 PM	6	6	5:21 PM	4	1	5
5:31 PM	7	7	5:22 PM	5	0	5
5:32 PM	6	6	5:23 PM	4	1	5
5:32 PM	7	7	5:23 PM	5	0	5
5:34 PM	6	6	5:24 PM	4	1	5
5:35 PM	5	5	5:24 PM	5	0	5
5:35 PM	6	6	5:24 PM	4	2	6
5:35 PM	7	7	5:25 PM	6	0	6
5:35 PM	6	6	5:25 PM	5	1	6
5:36 PM	7	7	5:25 PM	6	0	6
5:36 PM	8	8	5:26 PM	5	0	5
5:36 PM	7	7	5:26 PM	5	2	7
5:36 PM	6	6	5:26 PM	7	0	7
5:37 PM	5	5	5:27 PM	7	1	8
5:38 PM	6	6	5:27 PM	8	0	8
5:39 PM	7	7	5:27 PM	7	0	7
5:40 PM	6	6	5:28 PM	5	1	6
5:40 PM	7	7	5:28 PM	6	0	6
5:40 PM	6	6	5:29 PM	4	1	5
5:40 PM	7	7	5:29 PM	5	2	7
5:41 PM	6	6	5:29 PM	7	0	7
5:41 PM	7	7	5:30 PM	7	2	9
5:41 PM	6	6	5:30 PM	9	0	9
5:42 PM	7	7	5:31 PM	8	0	8
5:42 PM	6	6	5:31 PM	7	3	10
5:42 PM	7	7	5:31 PM	10	0	10
5:43 PM	6	6	5:32 PM	9	0	9
5:43 PM	7	7	5:33 PM	9	1	10
5:44 PM	6	6	5:33 PM	10	0	10
5:44 PM	7	7	5:33 PM	10	1	11
5:44 PM	6	6	5:34 PM	11	0	11
5:45 PM	7	7	5:35 PM	10	0	10

5:47 PM	4	6	5:35 PM	8	1	9
5:47 PM	<u>6</u> 7	7	5:36 PM	9	0	9
5:47 PM	6	6	5:36 PM	8	0	8
5:47 PM	7	7	5:37 PM	7	0	7
5:50 PM	6	6	5:38 PM	6	0	6
5:50 PM	7	7	5:39 PM	5	0	5
5:51 PM	6	6	5:39 PM	5	2	7
5:52 PM	7	7	5:39 PM	7	0	7
5:53 PM	6	6	5:40 PM	6	1	7
5:53 PM	7	7	5:40 PM	7	0	7
5:53 PM	6	6	5:40 PM	7	1	8
5:54 PM	7	7	5:40 PM	8	0	8
5:54 PM	6	6	5:41 PM	7	0	7
5:54 PM	7	7	5:41 PM	6	0	6
5:54 PM	6	6	5:41 PM	6	1	7
5:55 PM	7	7	5:42 PM	7	0	7
5:55 PM	6	6	5:42 PM	6	0	6
5:55 PM	7	7	5:42 PM	5	0	5
5:56 PM	6	6	5:43 PM	4	0	4
5:56 PM	7	7	5:44 PM	3	2	5
5:56 PM	6	6	5:45 PM	5	0	5
5:57 PM	7	7	5:45 PM	4	0	4
5:57 PM	6	6	5:47 PM	3	0	3
5:57 PM	5	5	5:47 PM	2	0	2
5:58 PM	6	6	5:48 PM	2	1	3
5:58 PM	5	5	5:48 PM	3	0	3
5:58 PM	4	4	5:50 PM	3	1	4
5:59 PM	3	3	5:50 PM	4	0	4
5:59 PM	2	2	5:50 PM	3	0	3
6:00 PM	3	3	5:51 PM	3	1	4
6:00 PM	2	2	5:51 PM	4	0	4
6:00 PM	1	1	5:52 PM	4	1	5
6:02 PM	2	2	5:52 PM	5	0	5
6:02 PM	1	1	5:52 PM	4	0	4
6:03 PM	2	2	5:53 PM	3	0	3
6:03 PM	2	2	5:54 PM	2	2	4
6:03 PM	1	1	5:54 PM	4	0	4
6:04 PM	2	2	5:54 PM	3	1	4
6:04 PM	3	3	5:55 PM	4	0	4
6:05 PM	4	4	5:55 PM	3	0	3
6:05 PM	3	3	5:56 PM	2	0	2

6:06 PM	4	4	5:57 PM	1	1	2
6:06 PM	5	5	5:57 PM	2	0	2
6:06 PM	6	6	5:57 PM	0	1	1
6:10 PM	5	5	5:58 PM	1	0	1
6:10 PM	6	6	5:58 PM	0	1	1
6:10 PM	7	7	5:58 PM	1	0	1
6:11 PM	6	6	6:00 PM	0	1	1
6:11 PM	5	5	6:00 PM	1	0	1
6:11 PM	6	6	6:01 PM	1	3	4
6:12 PM	7	7	6:01 PM	4	0	4
6:12 PM	6	6	6:02 PM	3	1	4
6:13 PM	5	5	6:02 PM	4	0	4
6:13 PM	6	6	6:03 PM	3	0	3
6:13 PM	5	5	6:04 PM	2	0	2
6:14 PM	6	6	6:04 PM	1	1	2
6:15 PM	5	5	6:04 PM	2	0	2
6:15 PM	6	6	6:05 PM	1	1	2
6:16 PM	5	5	6:05 PM	2	0	2
6:16 PM	6	6	6:06 PM	1	3	4
6:16 PM	5	5	6:06 PM	4	0	4
6:16 PM	6	6	6:06 PM	4	1	5
6:16 PM	7	7	6:07 PM	3	0	3
6:17 PM	6	6	6:08 PM	3	1	4
6:18 PM	5	5	6:08 PM	4	0	4
6:18 PM	6	6	6:08 PM	4	1	5
6:18 PM	5	5	6:08 PM	5	0	5
6:18 PM	6	6	6:10 PM	4	1	5
6:18 PM	7	7	6:11 PM	5	0	5
6:20 PM	6	6	6:11 PM	5	1	6
6:21 PM	5	5	6:11 PM	6	0	6
6:21 PM	6	6	6:12 PM	5	0	5
6:21 PM	5	5	6:13 PM	4	0	4
6:22 PM	4	4	6:13 PM	3	0	3
6:22 PM	5	5	6:14 PM	3	2	5
6:23 PM	4	4	6:14 PM	5	0	5
6:24 PM	3	3	6:15 PM	4	3	7
6:25 PM	4	4	6:15 PM	7	0	7
6:25 PM	3	3	6:16 PM	6	0	6
6:25 PM	4	4	6:16 PM	5	0	5
6:26 PM	3	3	6:17 PM	4	1	5
6:27 PM	4	4	6:17 PM	5	0	5

6:28 PM	5	5	6:18 PM	1	0	4
6:28 PM	6	6	6:18 PM	3	0	3
6:28 PM	5	5	6:18 PM	2	0	2
6:28 PM	6	6	6:20 PM	1	0	1
6:28 PM	5	5	6:21 PM	1	1	2
6:29 PM	4	4	6:21 PM	2	0	2
6:29 PM	5	5	6:21 PM	1	0	1
6:29 PM	4	4	6:22 PM	0	0	0
6:30 PM	5	5	6:23 PM	0	2	2
6:30 PM	4	4	6:23 PM	2	0	2
6:31 PM	3	3	6:25 PM	1	1	2
6:32 PM	4	4	6:25 PM	2	0	2
6:32 PM	5	5	6:26 PM	1		1
6:32 PM	4	4	6:26 PIVI 6:27 PM	1	0 3	4
6:33 PM	5	5	6:27 PM	4	0	4
6:34 PM	4	4	6:27 PM	3	1	4
6:34 PM	5	5	6:27 PM	4	0	4
6:34 PM	6	6	6:28 PM	3	0	3
6:34 PM	5	5	6:28 PM	2	0	2
6:35 PM	6	6	6:28 PM	1	1	2
6:35 PM	5	5	6:28 PM	2	0	2
6:35 PM	6	6	6:29 PM	1	0	1
6:35 PM	5	5	6:30 PM	0	0	0
6:36 PM	6	6	6:31 PM	0	2	2
6:37 PM	5	5	6:31 PM	2	0	2
6:37 PM	6	6	6:31 PM	2	2	4
6:37 PM	7	7	6:31 PM	4	0	4
6:38 PM	6	6	6:32 PM	4	2	6
6:39 PM	5	5	6:32 PM	6	0	6
6:39 PM	6	6	6:32 PM	5	1	6
6:39 PM	7	7	6:32 PM	6	0	6
6:39 PM	6	6	6:33 PM	6	1	7
6:39 PM	7	7	6:33 PM	7	0	7
6:39 PM	6	6	6:33 PM	6	0	6
6:40 PM	7	7	6:33 PM	5	1	6
6:40 PM	8	8	6:34 PM	6	0	6
6:40 PM	7	7	6:34 PM	4	2	6
6:41 PM	6	6	6:34 PM	6	0	6
6:41 PM	7	7	6:34 PM	6	1	7
6:41 PM	6	6	6:34 PM	7	0	7
6:41 PM	7	7	6:35 PM	6	0	6
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6:42 PM	6	6	6:35 PM	5	0	5
6:43 PM	5	5	6:36 PM	5	1	6
6:43 PM	6	6	6:36 PM	6	0	6
6:43 PM	7	7	6:36 PM	5	0	5
6:43 PM	6	6	6:37 PM	5	2	7
6:44 PM	7	7	6:37 PM	7	0	7
6:44 PM	6	6	6:37 PM	6	0	6
6:45 PM	7	7	6:37 PM	6	1	7
6:45 PM	6	6	6:37 PM	7	0	7
6:46 PM	7	7	6:38 PM	7	1	8
6:47 PM	6	6	6:38 PM	8	0	8
6:47 PM	7	7	6:39 PM	6	0	6
6:49 PM	6	6	6:39 PM	5	1	6
6:49 PM	5	5	6:40 PM	6	0	6
6:50 PM	6	6	6:40 PM	5	0	5
6:50 PM	5	5	6:41 PM	4	1	5
6:51 PM	6	6	6:41 PM	5	0	5
6:51 PM	5	5	6:41 PM	4	0	4
6:51 PM	6	6	6:42 PM	3	0	3
6:52 PM	5	5	6:43 PM	2	1	3
6:53 PM	6	6	6:43 PM	3	0	3
6:53 PM	5	5	6:43 PM	2	0	2
6:53 PM	6	6	6:44 PM	2	1	3
6:55 PM	5	5	6:44 PM	3	0	3
6:55 PM	6	6	6:44 PM	2	1	3
6:55 PM	7	7	6:44 PM	3	0	3
6:56 PM	6	6	6:45 PM	2	2	4
6:56 PM	5	5	6:45 PM	4	0	4
6:56 PM	6	6	6:46 PM	3	0	3
6:58 PM	5	5	6:47 PM	2	0	2
6:58 PM	6	6	6:49 PM	1	1	2
6:59 PM	7	7	6:49 PM	2	0	2
6:59 PM	6	6	6:50 PM	1	1	2
6:59 PM	7	7	6:50 PM	2	1	3
6:59 PM	6	6	6:50 PM	3	0	3
6:59 PM	7	7	6:51 PM	3	1	4
			6:51 PM	4	0	4
			6:51 PM	3	1	4
			6:51 PM	4	0	4
			6:52 PM	3	2	5
			6:52 PM	5	0	5

6:53 PM	5	2	7
6:53 PM	7	0	7
6:53 PM	6	0	6
6:53 PM	5	0	5
6:54 PM	5	2	7
6:54 PM	7	0	7
6:55 PM	6	2	8
6:56 PM	8	0	8
6:57 PM	7	0	7
6:57 PM	6	0	6
6:58 PM	5	0	5
6:59 PM	4	0	4
6:59 PM	4	2	6
6:59 PM	6	0	6
7:00 PM	5	0	5

Date: 9/29/2020

Location: Raising Canes - 26782 Portola Pkwy

City: Foothill Ranch, CA

Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total	Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
11:00 AM	1	0	0	1	4:00 PM	0	1	0	1
11:01 AM	1	0	0	1	4:01 PM	1	1	0	2
11:02 AM	0	0	0	0	4:02 PM	0	2	0	2
11:03 AM	0	0	0	0	4:03 PM	2	0	0	2
11:04 AM	0	1	1	2	4:04 PM	2	0	0	2
11:05 AM	1	0	0	1	4:05 PM	2	0	0	2
11:06 AM	1	2	0	3	4:06 PM	1	2	0	3
11:07 AM	2	0	0	2	4:07 PM	1	1	0	2
11:08 AM	1	0	0	1	4:08 PM	1	1	0	2
11:09 AM	0	0	0	0	4:09 PM	1	1	0	2
11:10 AM	0	0	0	0	4:10 PM	0	2	0	2
11:11 AM	0	0	0	0	4:11 PM	2	2	0	4
11:12 AM	0	1	0	1	4:12 PM	2	2	1	5
11:13 AM	1	0	1	2	4:13 PM	2	1	0	3
11:14 AM	1	0	1	2	4:14 PM	3	0	0	3
11:15 AM	0	1	0	1	4:15 PM	2	0	0	2
11:16 AM	1	0	0	1	4:16 PM	1	0	0	1
11:17 AM	1	0	0	1	4:17 PM	0	2	0	2
11:18 AM	0	0	0	0	4:18 PM	0	2	0	2
11:19 AM	0	0	0	0	4:19 PM	2	1	0	3
11:20 AM	0	0	0	0	4:20 PM	1	1	0	2
11:21 AM	0	1	0	1	4:21 PM	2	0	0	2
11:22 AM	1	2	0	3	4:22 PM	1	0	0	1
11:23 AM	1	3	0	4	4:23 PM	0	0	0	0
11:24 AM	2	1	0	3	4:24 PM	0	1	0	1
11:25 AM	2	1	0	3	4:25 PM	0	2	0	2
11:26 AM	2	1	0	3	4:26 PM	2	1	0	3
11:27 AM	3	1	0	4	4:27 PM	1	1	0	2
11:28 AM	4	1	0	5	4:28 PM	1	1	0	2
11:29 AM	4	1	0	5	4:29 PM	2	0	0	2
11:30 AM	3	1	0	4	4:30 PM	2	0	0	2
11:31 AM	3	1	0	4	4:31 PM	1	0	0	1
11:32 AM	3	0	0	3	4:32 PM	1	0	0	1
11:33 AM	2	1	0	3	4:33 PM	2	0	0	2
11:34 AM	3	1	0	4	4:34 PM	1	0	0	1
11:35 AM	3	1	0	4	4:35 PM	1	1	0	2
11:36 AM	4	0	0	4	4:36 PM	0	1	0	1
11:37 AM	4	0	0	4	4:37 PM	1	1	0	2
11:38 AM	3	1	0	4	4:38 PM	2	0	0	2
11:39 AM	3	1	0	4	4:39 PM	1	1	0	2
11:40 AM	3	1	0	4	4:40 PM	1	1	2	4

11:41 AM	3	1	0	4	4:41 PM	2	1	2	5
11:42 AM	4	1	0	5	4:42 PM	1	1	2	4
11:43 AM	3	0	0	3	4:43 PM	2	1	2	5
11:44 AM	2	4	0	6	4:44 PM	2	1	1	4
11:45 AM	4	1	0	5	4:45 PM	2	1	1	4
11:46 AM	4	0	0	4	4:46 PM	3	1	1	5
11:47 AM	4	0	0	4	4:47 PM	3	1	1	5
11:48 AM	3	2	0	5	4:48 PM	3	1	0	4
11:49 AM	3	2	0	5	4:49 PM	2	1	0	3
11:50 AM	5	1	0	6	4:50 PM	2	1	0	3
11:51 AM	5	2	0	7	4:51 PM	2	0	0	2
11:52 AM	5	0	0	5	4:52 PM	1	0	0	1
11:53 AM	5	1	0	6	4:53 PM	1	1	1	3
11:54 AM	6	1	0	7	4:54 PM	0	1	2	3
11:55 AM	6	1	0	7	4:55 PM	1	 1	1	3
11:56 AM	6	3	0	9	4:56 PM	1	1	0	2
11:57 AM	6	3	0	9	4:57 PM	2	0	0	2
11:58 AM	7	2	0	9	4:58 PM	1	0	0	1
11:59 AM	7	3	0	10	4:59 PM	1	0	0	1
12:00 PM	7	0	0	7	5:00 PM	1	0	0	1
12:01 PM	6	0	0	6	5:01 PM	2	1	0	3
12:02 PM	6	0	0	6	5:02 PM	1	1	0	2
12:03 PM	6	0	0	6	5:03 PM	0	2	0	2
12:04 PM	5	0	0	5	5:04 PM	2	0	0	2
12:05 PM	4	0	0	4	5:05 PM	2	1	0	3
12:06 PM	3	0	0	3	5:06 PM	3	0	0	3
12:07 PM	2	0	0	2	5:07 PM	3	2	0	5
12:08 PM	2	0	0	2	5:08 PM	3	1	0	4
12:09 PM	3	0	0	3	5:09 PM	3	0	0	3
12:10 PM	3	1	0	4	5:10 PM	2	1	2	5
12:11 PM	3	1	0	4	5:11 PM	3	1	1	5
12:12 PM	4	0	0	4	5:12 PM	2	2	1	5
12:13 PM	4	0	0	4	5:13 PM	3	1	0	4
12:14 PM	4	1	0	5	5:14 PM	3	1	1	5
12:15 PM	4	1	0	5	5:15 PM	2	1	0	3
12:16 PM	5	0	0	5	5:16 PM	3	0	0	3
12:17 PM	5	2	0	7	5:17 PM	2	1	0	3
12:17 PM	5	2	0	7	5:18 PM	1	2	0	3
12:19 PM	6	2	0	8	5:19 PM	3	1	0	4
12:20 PM	6	1	0	7	5:20 PM	4	0	0	4
12:21 PM	6	1	0	7	5:21 PM	3	1	1	5
12:22 PM	5	1	0	6	5:22 PM	3	2	1	6
12:23 PM	6	0	0	6	5:23 PM	3	2	0	5
12:24 PM	6	0	0	6	5:24 PM	4	0	0	4
12:24 PM				8	5:25 PM		2	0	6
12:26 PM	6	2	0	8	5:26 PM	4	0		6
12:27 PM	6 7	2	0	8	5:27 PM	6		0	8
12:27 PM		1	0	9	5:27 PIVI 5:28 PM	6	1	1	7
12:28 PM	7 6	2 2	0	8	5:28 PM 5:29 PM	5 6	2	0	8
12:29 PM				7	5:29 PM 5:30 PM	7			8
12:30 PM	6	1	0		5:30 PM		1	0	
12:31 PM	6	1	0	7	5:31 PM 5:32 PM	5	1	0	6
12:32 PIVI	6	3	0	9	5:32 PIVI	5	2	0	7

12:33 PM	6	3	0	9	5:33 PM	7	2	0	9
12:34 PM	7	2	0	9	5:34 PM	7	1	0	8
12:35 PM	7	3	0	10	5:35 PM	6	2	0	8
12:36 PM	7	1	0	8	5:36 PM	7	3	0	10
12:37 PM	7	1	0	8	5:37 PM	7	3	0	10
12:38 PM	7	0	0	7	5:38 PM	7	5	0	12
12:39 PM	6	0	0	6	5:39 PM	7	4	0	11
12:40 PM	6	0	0	6	5:40 PM	7	4	0	11
12:41 PM	6	0	0	6	5:41 PM	7	6	2	15
12:42 PM	6	0	0	6	5:42 PM	7	6	1	14
12:43 PM	5	0	0	5	5:43 PM	7	7	1	15
12:44 PM	6	1	0	7	5:44 PM	7	8	1	16
12:45 PM	5	0	0	5	5:45 PM	7	7	0	14
12:46 PM	4	0	0	4	5:46 PM	7	6	2	15
12:47 PM	3	0	0	3	5:47 PM	7	5	2	14
12:48 PM	3	3	0	6	5:48 PM	7	6	2	15
12:49 PM	3	2	0	5	5:49 PM	7	5	2	14
12:50 PM	3	2	0	5	5:50 PM	7	6	2	15
12:51 PM	2	3	0	5	5:51 PM	7	7	0	14
12:52 PM	2	2	0	4	5:52 PM	7	6	1	14
12:53 PM	3	3	0	6	5:53 PM	7	6	1	14
12:54 PM	3	2	0	5	5:54 PM	7	7	2	16
12:55 PM	6	0	0	6	5:55 PM	7	7	3	17
12:56 PM	6	0	0	6	5:56 PM	7	8	0	15
12:57 PM	6	1	0	7	5:57 PM	7	9	1	17
12:58 PM	7	0	0	7	5:58 PM	7	7	1	15
12:59 PM	6	0	0	6	5:59 PM	7	7	3	17
1:00 PM	4	0	0	4	6:00 PM	7	7	2	16
1:01 PM	3	0	0	3	6:01 PM	7	5	3	15
1:02 PM	4	1	0	5	6:02 PM	7	5	2	14
1:03 PM	4	0	0	4	6:03 PM	7	4	3	14
1:04 PM	4	1	0	5	6:04 PM	7	5	2	14
1:05 PM		2	1	7	6:05 PM	7	5	2	14
1:06 PM	4	2	0	6	6:06 PM	7	7	2	16
1:07 PM	3	2	0	5	6:07 PM	7	8	3	18
1:08 PM	4	0	0	4	6:08 PM	7	8	2	17
1:09 PM	3	0	0	3	6:09 PM	7	10	2	19
1:10 PM	1	2	0	3	6:10 PM	7	8	2	17
1:11 PM	0		0	2	6:11 PM	7		3	16
1:12 PM	2	2 2	0	4	6:12 PM	7	6	4	17
1:13 PM					6:13 PM				
1:14 PM	2 1	1 2	0 2	<u>3</u> 5	6:14 PM	7	5 3	4	16 14
1:15 PM				5	6:15 PM				15
1:16 PM	2	3	0	5	6:16 PM	7	5	3	15
1:16 PM	5	0	0		6:16 PM		5	3	
1:17 PM	5	0	0	5	6:17 PM 6:18 PM	7	5	3	15
	4	0	0	4		7	6	3	16
1:19 PM	3	0	0	3	6:19 PM	7	6	4	17
1:20 PM	2	1	0	3	6:20 PM	7	7	3	17
1.21 DM			0	4	6:21 PM	7	7	3	17
1:21 PM	1	3		·	( 00 DM		_	_	47
1:22 PM	2	4	0	6	6:22 PM	7	8	2	17
				·	6:22 PM 6:23 PM 6:24 PM		8 7 8	2 1 0	17 15 15

1:25 PM	7	4	0	11	6:25 PM	6	8	0	14
1:26 PM	7	4	0	11	6:26 PM	6	8	0	14
1:27 PM	7	3	0	10	6:27 PM	7	6	1	14
1:28 PM	7	3	0	10	6:28 PM	7	6	4	17
1:29 PM	7	2	0	9	6:29 PM	7	5	5	17
1:30 PM	7	2	0	9	6:30 PM	7	6	3	16
1:31 PM	7	2	0	9	6:31 PM	7	6	3	16
1:32 PM	7	2	1	10	6:32 PM	7	8	2	17
1:33 PM	7	2	0	9	6:33 PM	7	8	3	18
1:34 PM	7	4	0	11	6:34 PM	7	8	2	17
1:35 PM	7	3	0	10	6:35 PM	7	10	4	21
1:36 PM	7	3	0	10	6:36 PM	7	9	4	20
1:37 PM	7	2	0	9	6:37 PM	7	9	2	18
1:38 PM	7	0	0	7	6:38 PM	7	9	0	16
1:39 PM	5	3	0	8	6:39 PM	7	8	0	15
1:40 PM	6	3	0	9	6:40 PM	7	7	0	14
1:41 PM	5	2	0	7	6:41 PM	7	5	0	12
1:42 PM	6	0	0	6	6:42 PM	7	3	0	10
1:43 PM	5	1	0	6	6:43 PM	7	5	0	12
1:44 PM	4	0	0	4	6:44 PM	7	4	0	11
1:45 PM	4	0	0	4	6:45 PM	7	4	0	11
1:46 PM	3	0	0	3	6:46 PM	7	3	0	10
1:47 PM	2	1	0	3	6:47 PM	7	1	0	8
1:48 PM	2	0	0	2	6:48 PM	7	0	0	7
1:49 PM	2	0	0	2	6:49 PM	5	0	0	5
1:50 PM	1	1	0	2	6:50 PM	3	2	0	5
1:51 PM	2	0	0	2	6:51 PM	4	1	0	5
1:52 PM	2	1	0	3	6:52 PM	3	1	2	6
1:53 PM	2	2	0	4	6:53 PM	3	1	1	5
1:54 PM	3	1	0	4	6:54 PM	2	1	3	6
1:55 PM	4	0	0	4	6:55 PM	3	1	3	7
1:56 PM	2	2	0	4	6:56 PM	2	1	3	6
1:57 PM	1	1	0	2	6:57 PM	2	1	3	6
1:58 PM	1	1	0	2	6:58 PM	3	1	5	9
1:59 PM	2	0	0	2	6:59 PM	2	1	5	8

Date: 9/26/2020

Location: Raising Canes - 2249 N Tustin St

City: Orange, CA

Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total	Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
11:00 AM	2	0	0	2	4:00 PM	4	4	4	12
11:05 AM	3	0	0	3	4:02 PM	4	4	3	11
11:09 AM	3	1	0	4	4:04 PM	4	5	4	13
11:12 AM	2	2	0	4	4:06 PM	4	5	6	15
11:18 AM	3	1	0	4	4:09 PM	4	5	8	17
11:20 AM	3	0	0	3	4:11 PM	4	5	11	20
11:22 AM	2	2	0	4	4:16 PM	4	5	12	21
11:24 AM	2	3	0	5	4:24 PM	4	5	11	20
11:26 AM	3	4	0	7	4:36 PM	4	5	10	19
11:27 AM	4	3	0	7	4:40 PM	4	5	9	18
11:29 AM	4	1	0	5	4:46 PM	4	5	10	19
11:30 AM	3	0	0	3	4:50 PM	4	5	12	21
11:31 AM	2	0	0	2	4:55 PM	4	5	13	22
11:32 AM	1	0	0	1	4:58 PM	4	5	12	21
11:33 AM	0	0	0	0	5:03 PM	3	5	12	20
11:35 AM	1	0	0	1	5:06 PM	2	5	12	19
11:39 AM	2	0	0	2	5:09 PM	3	5	12	20
11:40 AM	3	0	0	3	5:11 PM	3	5	14	22
11:41 AM	2	1	0	3	5:13 PM	3	5	16	24
11:44 AM	2	2	0	4	5:15 PM	3	5	15	23
11:46 AM	2	1	0	3	5:16 PM	3	5	17	25
11:49 AM	2	2	0	4	5:20 PM	4	5	13	22
11:51 AM	2	1	0	3	5:29 PM	4	5	14	23
11:53 AM	2	3	0	5	5:37 PM	4	5	15	24
11:55 AM	3	2	0	5	5:40 PM	4	5	13	22
11:56 AM	4	1	0	5	5:45 PM	4	5	11	20
11:58 AM	4	3	0	7	5:50 PM	4	5	10	19
12:00 PM	2	3	0	5	5:55 PM	4	5	12	21
12:01 PM	1	4	0	5	5:58 PM	4	5	14	23
12:02 PM	2	4	1	7	6:03 PM	4	5	16	25
12:04 PM	2	4	2	8	6:10 PM	4	5	14	23
12:05 PM	2	4	3	9	6:13 PM	4	5	13	22
12:06 PM	2	4	4	10	6:20 PM	4	5	12	21
12:08 PM	2	3	3	8	6:24 PM	4	5	13	22
12:10 PM	3	3	3	9	6:30 PM	4	5	12	21
12:12 PM	3	3	2	8	6:33 PM	4	5	13	22
12:14 PM	2	3	3	8	6:40 PM	4	5	12	21
12:16 PM	3	3	3	9	6:45 PM	4	5	11	20
12:18 PM	4	3	4	11	6:50 PM	4	5	13	22
12:19 PM	2	3	4	9	6:55 PM	4	5	14	23
12:21 PM	3	3	2	8	7:00 PM	4	5	13	22

12:22 PM				0
	4	3	1	8
12:23 PM	2	3	2	7
12:24 PM	1	3	4	8
12:25 PM	2	3	4	9
12:27 PM	1	3	3	7
12:29 PM	2	3	2	7
12:30 PM	3	2	1	6
12:32 PM	4	3	0	7
12:34 PM	4	4	0	8
12:36 PM	4	3	1	8
12:38 PM	4	3	1	8
12:40 PM	3	3	0	6
12:42 PM	3	2	0	5
12:43 PM	3	4	0	7
12:45 PM	3	4	1	8
12:46 PM	1	3	3	7
12:47 PM	2	3	2	7
12:49 PM	2	3	3	8
12:51 PM	2	3	4	9
12:53 PM	2	3	5	10
12:55 PM	1	3	5	9
12:57 PM	0	3	7	10
12:58 PM	1	3	8	12
12:59 PM	2	3	9	14
1:00 PM	2	3	8	13
1:02 PM	3	3	6	12
1:04 PM	2	3	5	10
1:05 PM	3	3	4	10
1:06 PM	4	3	5	12
1:07 PM	4	3	7	14
1:08 PM	4	3	9	16
1:09 PM	4	3	11	18
1:10 PM	3	3	11	17
1:12 PM	3	3	10	16
1:15 PM	3	3	12	18
1:18 PM	2	3	12	17
1:20 PM	3	3	12	18
1:29 PM	3	3	11	17
1:30 PM	4	3	11	18
1:33 PM	3	3	11	17
1:38 PM	2	3	11	16
1:40 PM	3	3	9	15
1:41 PM	4	3	9	16
1:42 PM	3	3	7	13
1:44 PM	2	3	7	12
1:47 PM	2	3	8	13
1:50 PM	2	3	9	14
1:50 PM				15
1:54 PM	2	3	10	
1:54 PM	2	3	11	16 19
1:56 PM	3	3	13	
	3	3	13	19
2:00 PM	2	3	13	18

## Drive-thru Queue Study

Date: 9/26/2020

Location: Raising Canes - 10142 Adams Avenue

City: Huntington Beach, CA Day: Saturday

Time	Number of Cars In Zone 1	Total	Time	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
11:03 AM	1	1	11:01 AM	1	0	1
11:05 AM	0	0	11:03 AM	0	0	0
11:09 AM	1	1	11:07 AM	1	0	1
11:10 AM	0	0	11:09 AM	0	0	0
11:15 AM	2	2	11:13 AM	1	1	2
11:16 AM	1	1	11:15 AM	0	1	1
11:17 AM	2	2	11:16 AM	1	0	1
11:18 AM	1	1	11:17 AM	0	1	1
11:19 AM	2	2	11:19 AM	0	0	0
11:22 AM	1	1	11:20 AM	0	1	1
11:24 AM	2	2	11:21 AM	1	0	1
11:26 AM	1	1	11:23 AM	1	1	2
11:27 AM	2	2	11:24 AM	1	0	1
11:27 AM	1	1	11:25 AM	2	0	2
11:28 AM	2	2	11:27 AM	1	0	1
11:29 AM	1	1	11:28 AM	0	0	0
11:34 AM	0	0	11:34 AM	0	1	1
11:37 AM	1	1	11:36 AM	1	0	1
11:39 AM	0	0	11:37 AM	0	0	0
11:40 AM	1	1	11:40 AM	2	1	3
11:42 AM	2	2	11:42 AM	2	0	2
11:42 AM	1	1	11:42 AM	1	0	1
11:43 AM	2	2	11:43 AM	0	0	0
11:44 AM	1	1	11:45 AM	1	1	2
11:45 AM	0	0	11:46 AM	2	1	3
11:50 AM	1	1	11:47 AM	3	0	3
11:51 AM	0	0	11:48 AM	3	1	4
11:54 AM	1	1	11:49 AM	4	0	4
11:56 AM	2	2	11:50 AM	3	1	4
11:57 AM	3	3	11:51 AM	5	0	5

11:58 AM	4	4	11:54 AM	4	0	4
12:00 PM	3	3	11:56 AM	3	0	3
12:01 PM	2	2	11:57 AM	2	3	5
12:02 PM	4	4	11:58 AM	2	2	4
12:03 PM	5	5	11:59 AM	4	1	5
12:04 PM	3	3	12:00 PM	5	1	6
12:06 PM	4	4	12:01 PM	6	1	7
12:07 PM	5	5	12:02 PM	5	0	5
12:08 PM	3	3	12:03 PM	4	1	5
12:09 PM	4	4	12:04 PM	5	0	5
12:10 PM	3	3	12:06 PM	4	0	4
12:12 PM	4	4	12:07 PM	3	1	4
12:15 PM	6	6	12:08 PM	3	2	5
12:16 PM	5	5	12:09 PM	5	1	6
12:18 PM	6	6	12:10 PM	6	1	7
12:19 PM	7	7	12:13 PM	6	0	6
12:20 PM	5	5	12:15 PM	4	1	5
12:21 PM	6	6	12:16 PM	5	0	5
12:21 PM	7	7	12:18 PM	4	0	4
12:22 PM	6	6	12:19 PM	3	0	3
12:23 PM	5	5	12:21 PM	2	0	2
12:24 PM	6	6	12:21 PM	1	0	1
12:25 PM	7	7	12:22 PM	1	1	2
12:26 PM	5	5	12:23 PM	3	0	3
12:27 PM	4	4	12:24 PM	2	1	3
12:27 PM	3	3	12:25 PM	1	1	2
12:28 PM	5	5	12:26 PM	1	3	4
12:29 PM	4	4	12:27 PM	4	0	4
12:30 PM	3	3	12:28 PM	2	0	2
12:31 PM	5	5	12:30 PM	2	1	3
12:32 PM	6	6	12:31 PM	1	0	1
12:34 PM	4	4	12:32 PM	0	1	1
12:35 PM	3	3	12:34 PM	0	2	2
12:35 PM	2	2	12:35 PM	2	0	2
12:36 PM	1	1	12:35 PM	2	1	3
12:37 PM	2	2	12:36 PM	3	0	3
12:38 PM	3	3	12:37 PM	2	1	3
12:38 PM	2	2	12:38 PM	2	0	2
12:39 PM	4	4	12:38 PM	3	0	3
12:40 PM	2	2	12:39 PM	1	0	1
12:41 PM	0	0	12:40 PM	2	1	3
			-		-	_

12:41 PM							
12:46 PM	12:41 PM	1	1	12:41 PM	3	0	3
12:47 PM	12:42 PM	0	0	12:41 PM	2	1	3
12:49 PM	12:46 PM	2	2	12:42 PM	3	1	4
12:50 PM	12:47 PM	1	1	12:43 PM			7
12:52 PM	12:49 PM	0	0	12:44 PM	5	4	9
12:53 PM	12:50 PM	1	1	12:45 PM	9	0	9
12:53 PM	12:52 PM	0	0	12:46 PM	7	1	8
12:54 PM	12:53 PM	1	1	12:47 PM	8	1	9
12:55 PM	12:53 PM	3	3	12:48 PM	9	0	9
12:57 PM	12:54 PM	4	4	12:49 PM	10	1	11
12:58 PM	12:55 PM	5	5	12:50 PM	10	0	10
12:59 PM	12:57 PM	4	4	12:51 PM	10	1	11
1:00 PM	12:58 PM	3		12:52 PM	11	3	14
1:01 PM	12:59 PM	5	5	12:53 PM	13	2	15
1:02 PM	1:00 PM	4	4	12:53 PM	13	0	13
1:03 PM         5         5         12:56 PM         12         1         13           1:04 PM         6         6         6         12:58 PM         12         0         12           1:05 PM         7         7         12:59 PM         10         0         10           1:06 PM         4         4         1:00 PM         10         0         1           1:07 PM         5         5         1:01 PM         10         0         10           1:08 PM         6         6         1:02 PM         10         0         10           1:09 PM         7         7         1:02 PM         10         2         12           1:09 PM         7         7         1:02 PM         10         0         12           1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         0         9	1:01 PM	5	5	12:54 PM	12	0	12
1:04 PM         6         6         12:58 PM         12         0         12           1:05 PM         7         7         12:59 PM         10         0         10           1:06 PM         4         4         1:00 PM         10         1         11           1:07 PM         5         5         1:01 PM         10         0         10           1:08 PM         6         6         1:02 PM         10         2         12           1:09 PM         7         7         7         1:02 PM         12         0         12           1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         4         4         1:08 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM	1:02 PM	4	4	12:55 PM	11	2	13
1:05 PM         7         7         12:59 PM         10         0         10           1:06 PM         4         4         1:00 PM         10         1         11           1:07 PM         5         5         1:01 PM         10         0         10           1:08 PM         6         6         6         1:02 PM         10         2         12           1:09 PM         7         7         1:02 PM         12         0         12           1:09 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM	1:03 PM	5	5	12:56 PM	12	1	13
1:06 PM         4         4         1:00 PM         10         1         11           1:07 PM         5         5         1:01 PM         10         0         10           1:08 PM         6         6         1:02 PM         10         2         12           1:09 PM         7         7         1:02 PM         12         0         12           1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM         6         6         1:09 PM         7         0         7           1:16 PM         5         <	1:04 PM		6	12:58 PM	12	0	12
1:07 PM         5         5         1:01 PM         10         0         10           1:08 PM         6         6         1:02 PM         10         2         12           1:09 PM         7         7         1:02 PM         12         0         12           1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM         4         4         1:08 PM         8         0         8           1:15 PM         6         6         1:09 PM         7         0         7           1:16 PM         5         5         1:10 PM         7         1         8           1:19 PM         4 <td< td=""><td>1:05 PM</td><td>7</td><td>7</td><td>12:59 PM</td><td>10</td><td>0</td><td>10</td></td<>	1:05 PM	7	7	12:59 PM	10	0	10
1:08 PM         6         6         1:02 PM         10         2         12           1:09 PM         7         7         1:02 PM         12         0         12           1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM         6         6         1:09 PM         7         0         7           1:16 PM         5         5         1:10 PM         7         1         8           1:17 PM         3         3         1:11 PM         8         0         8           1:18 PM         4         4         1:12 PM         7         0         7           1:20 PM         5         5	1:06 PM	4	4	1:00 PM	10	1	11
1:09 PM         7         7         1:02 PM         12         0         12           1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM         6         6         1:09 PM         7         0         7           1:16 PM         5         5         1:10 PM         7         1         8           1:17 PM         3         3         1:11 PM         8         0         8           1:18 PM         4         4         1:12 PM         7         0         7           1:18 PM         5         5         1:13 PM         6         0         6           1:19 PM         6         6 </td <td>1:07 PM</td> <td>5</td> <td>5</td> <td>1:01 PM</td> <td>10</td> <td>0</td> <td>10</td>	1:07 PM	5	5	1:01 PM	10	0	10
1:10 PM         5         5         1:03 PM         11         0         11           1:11 PM         3         3         1:04 PM         10         0         10           1:12 PM         4         4         1:05 PM         9         0         9           1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM         6         6         1:09 PM         7         0         7           1:16 PM         5         5         1:10 PM         7         1         8           1:17 PM         3         3         1:11 PM         8         0         8           1:18 PM         4         4         1:12 PM         7         0         7           1:18 PM         4         4         1:12 PM         7         0         6           1:19 PM         6         6         1:14 PM         5         0         5           1:20 PM         7         7 <td>1:08 PM</td> <td>6</td> <td>6</td> <td>1:02 PM</td> <td>10</td> <td>2</td> <td>12</td>	1:08 PM	6	6	1:02 PM	10	2	12
1:11 PM       3       3       1:04 PM       10       0       10         1:12 PM       4       4       1:05 PM       9       0       9         1:13 PM       5       5       1:06 PM       10       0       10         1:14 PM       6       6       1:07 PM       9       0       9         1:14 PM       4       4       1:08 PM       8       0       8         1:15 PM       6       6       1:09 PM       7       0       7         1:16 PM       5       5       1:10 PM       7       1       8         1:17 PM       3       3       1:11 PM       8       0       8         1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17	1:09 PM	7	7	1:02 PM	12	0	12
1:12 PM       4       4       1:05 PM       9       0       9         1:13 PM       5       5       1:06 PM       10       0       10         1:14 PM       6       6       1:07 PM       9       0       9         1:14 PM       4       4       1:08 PM       8       0       9         1:14 PM       4       4       1:08 PM       8       0       8         1:15 PM       6       6       1:09 PM       7       0       7         1:16 PM       5       5       1:10 PM       7       1       8         1:17 PM       3       3       1:11 PM       8       0       8         1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 P	1:10 PM	5		1:03 PM	11	0	11
1:13 PM         5         5         1:06 PM         10         0         10           1:14 PM         6         6         1:07 PM         9         0         9           1:14 PM         4         4         1:08 PM         8         0         8           1:15 PM         6         6         1:09 PM         7         0         7           1:16 PM         5         5         1:10 PM         7         1         8           1:17 PM         3         3         1:11 PM         8         0         8           1:18 PM         4         4         1:12 PM         7         0         7           1:18 PM         5         5         1:13 PM         6         0         6           1:19 PM         6         6         1:14 PM         5         0         5           1:20 PM         7         7         1:14 PM         5         1         6           1:20 PM         5         5         1:15 PM         4         0         4           1:21 PM         6         6         1:16 PM         5         1         6           1:22 PM         7         7	1:11 PM	3	3	1:04 PM	10	0	10
1:14 PM       6       6       1:07 PM       9       0       9         1:14 PM       4       4       1:08 PM       8       0       8         1:15 PM       6       6       1:09 PM       7       0       7         1:16 PM       5       5       1:10 PM       7       1       8         1:17 PM       3       3       1:11 PM       8       0       8         1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:20 PM       5       5       1:15 PM       4       0       4         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 PM       6       0       6	1:12 PM	4	4	1:05 PM	9	0	9
1:14 PM       4       4       1:08 PM       8       0       8         1:15 PM       6       6       1:09 PM       7       0       7         1:16 PM       5       5       1:10 PM       7       1       8         1:17 PM       3       3       1:11 PM       8       0       8         1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:20 PM       5       5       1:15 PM       4       0       4         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 PM       6       0       6	1:13 PM	5	5	1:06 PM	10	0	10
1:15 PM       6       6       1:09 PM       7       0       7         1:16 PM       5       5       1:10 PM       7       1       8         1:17 PM       3       3       1:11 PM       8       0       8         1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:20 PM       5       5       1:15 PM       4       0       4         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 PM       6       0       6	1:14 PM	6	6	1:07 PM	9	0	
1:16 PM         5         5         1:10 PM         7         1         8           1:17 PM         3         3         1:11 PM         8         0         8           1:18 PM         4         4         1:12 PM         7         0         7           1:18 PM         5         5         1:13 PM         6         0         6           1:19 PM         6         6         1:14 PM         5         0         5           1:20 PM         7         7         1:14 PM         5         1         6           1:20 PM         5         5         1:15 PM         4         0         4           1:21 PM         6         6         1:16 PM         5         1         6           1:22 PM         7         7         1:17 PM         6         0         6	1:14 PM	4				0	
1:17 PM       3       3       1:11 PM       8       0       8         1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:20 PM       5       5       1:15 PM       4       0       4         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 PM       6       0       6	1:15 PM			1:09 PM		0	
1:18 PM       4       4       1:12 PM       7       0       7         1:18 PM       5       5       1:13 PM       6       0       6         1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:20 PM       5       5       1:15 PM       4       0       4         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 PM       6       0       6						-	
1:18 PM         5         5         1:13 PM         6         0         6           1:19 PM         6         6         1:14 PM         5         0         5           1:20 PM         7         7         1:14 PM         5         1         6           1:20 PM         5         5         1:15 PM         4         0         4           1:21 PM         6         6         1:16 PM         5         1         6           1:22 PM         7         7         1:17 PM         6         0         6							
1:19 PM       6       6       1:14 PM       5       0       5         1:20 PM       7       7       1:14 PM       5       1       6         1:20 PM       5       5       1:15 PM       4       0       4         1:21 PM       6       6       1:16 PM       5       1       6         1:22 PM       7       7       1:17 PM       6       0       6							
1:20 PM         7         7         1:14 PM         5         1         6           1:20 PM         5         5         1:15 PM         4         0         4           1:21 PM         6         6         1:16 PM         5         1         6           1:22 PM         7         7         1:17 PM         6         0         6		5					
1:20 PM         5         5         1:15 PM         4         0         4           1:21 PM         6         6         1:16 PM         5         1         6           1:22 PM         7         7         1:17 PM         6         0         6							
1:21 PM         6         6         1:16 PM         5         1         6           1:22 PM         7         7         1:17 PM         6         0         6							6
1:22 PM 7 7 1:17 PM 6 0 6		5				0	
						·	
1:22 PM   5   5   1:18 PM   5   0   5							
	1:22 PM	5	5	1:18 PM	5	0	5

1:23 PM	6	6	1:18 PM	4	0	4
1:23 PM	5	5	1:19 PM	3	1	4
1:24 PM	6	6	1:19 PM	4	1	5
1:25 PM	7	7	1:21 PM	4	0	4
1:26 PM	6	6	1:22 PM	3	0	3
1:26 PM	4	4	1:23 PM	3	2	<u> </u>
1:27 PM	5	5	1:24 PM	4	0	4
1:28 PM	4	4	1:24 FW	3	0	3
1:28 PM	3	3	1:26 PM	3	2	5
1:29 PM	4	4	1:26 PM	5	0	5
1:30 PM	5	5	1:27 PM	4	0	4
1:31 PM	6	6	1:28 PM	4	1	5
1:32 PM	7	7	1:28 PM	5	0	5
1:33 PM	6	6	1:29 PM	4	0	4
1:33 PM	5	5	1:30 PM	3	0	3
1:34 PM	6	6	1:31 PM	2	0	2
1:35 PM	4	4	1:32 PM	1	0	1
1:36 PM	5	5	1:33 PM	1	1	2
1:37 PM	4	4	1:33 PM	2	0	2
1:37 PM	3	3	1:34 PM	1	2	3
1:38 PM	4	4	1:35 PM	3	0	3
1:39 PM	2	2	1:36 PM	2	0	2
1:40 PM	4	4	1:37 PM	1	2	3
1:41 PM	3	3	1:37 PM	3	0	3
1:42 PM	4	4	1:38 PM	2	2	4
1:43 PM	5	5	1:39 PM	4	0	4
1:44 PM	4	4	1:40 PM	2	1	3
1:44 PM	3	3	1:41 PM	3	0	3
1:45 PM	4	4	1:42 PM	2	0	2
1:46 PM	6	6	1:43 PM	1	0	1
1:46 PM	4	4	1:44 PM	1	3	4
1:47 PM	3	3	1:44 PM	4	0	4
1:48 PM	4	4	1:45 PM	3	0	3
1:49 PM	3	3	1:46 PM	1	2	3
1:49 PM	2	2	1:46 PM	3	0	3
1:50 PM	1	1	1:48 PM	2	0	2
1:51 PM	2	2	1:49 PM	2	1	3
1:53 PM	1	1	1:49 PM	3	1	4
1:54 PM	0	0	1:50 PM	4	0	4
1:55 PM	1	1	1:51 PM	3	0	3
1:56 PM	2	2	1:53 PM	3	3	6

1:56 PM	3	3	1:54 PM	6	0	6
1:57 PM	4	4	1:55 PM	5	0	5
1:58 PM	3	3	1:56 PM	5	2	7
1:58 PM	4	4	1:56 PM	7	0	7
1:59 PM	5	5	1:57 PM	6	0	6
2:00 PM	4	4	1:58 PM	6	1	7
			1:58 PM	6	0	6
			1:59 PM	5	1	6
			2:00 PM	6	0	6

Date: 9/26/2020

## Drive-thru Queue Study

Location: Raising Canes - 10142 Adams Avenue

City: Huntington Beach, CA Day: Saturday

Time	Number of Cars In Zone 1	Total	Time	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
4:00 PM	1	1	4:00 PM	2	0	2
4:01 PM	0	0	4:01 PM	3	1	4
4:04 PM	1	1	4:02 PM	5	1	6
4:05 PM	3	3	4:03 PM	6	0	6
4:07 PM	4	4	4:04 PM	5	0	5
4:07 PM	3	3	4:05 PM	5	1	6
4:07 PM	2	2	4:05 PM	5	2	7
4:08 PM	4	4	4:06 PM	7	0	7
4:08 PM	3	3	4:07 PM	6	0	6
4:09 PM	2	2	4:07 PM	5	0	5
4:09 PM	1	1	4:08 PM	5	2	7
4:09 PM	2	2	4:08 PM	7	0	7
4:09 PM	4	4	4:08 PM	6	0	6
4:10 PM	5	5	4:09 PM	4	0	4
4:10 PM	6	6	4:10 PM	3	0	3
4:10 PM	4	4	4:11 PM	2	0	2
4:11 PM	5	5	4:12 PM	1	1	2
4:12 PM	6	6	4:13 PM	2	1	3
4:12 PM	5	5	4:14 PM	3	0	3
4:13 PM	4	4	4:14 PM	2	0	2
4:13 PM	3	3	4:15 PM	2	1	3
4:14 PM	4	4	4:15 PM	3	0	3
4:15 PM	1	1	4:16 PM	1	0	1
4:15 PM	0	0	4:17 PM	1	1	2
4:16 PM	2	2	4:17 PM	2	0	2
4:16 PM	1	1	4:18 PM	0	0	0
4:17 PM	2	2	4:19 PM	0	3	3
4:18 PM	4	4	4:19 PM	3	0	3
4:19 PM	2	2	4:20 PM	2	0	2
4:19 PM	1	1	4:21 PM	1	0	1

4:20 PM							
4:21 PM         2         2         4:22 PM         1         0         1         2         4:23 PM         1         1         1         4:25 PM         1         1         1         4:25 PM         1         1         1         4:26 PM         1         0         1         1         4:28 PM         1         1         1         2         0         0         2         2         4:28 PM         2         0         0         2         2         4:28 PM         2         0         0         2         2         2         4:28 PM         0         0         2         2         2         4:28 PM         1         0         1         1         1         2         4:28 PM         2         0         0         2         2         2         4:28 PM         2         0         0         2         4:29 PM	4:20 PM	0	0	4:22 PM	1	1	2
4:21 PM         2         2         4:23 PM         0         1         1         1           4:22 PM         1         1         1         1         0         1         1           4:23 PM         1         1         1         1         1         1         2           4:23 PM         1         1         1         4:26 PM         1         0         1         1           4:23 PM         1         1         1         4:26 PM         1         1         1         2           4:24 PM         0         0         4:26 PM         1         0         2         1         4:27 PM         1         0         1         1         1         2         2         2         2         2         2         4:28 PM         0         2         2         2         4:28 PM         1         0         1         1         1         4:27 PM         1         0         1         1         1         4:27 PM         1         0         2         2         2         4:28 PM         1         0         1         1         1         4:28 PM         1         0         1         1         1<	4:20 PM	1	1	4:22 PM	2	0	2
4:22 PM	4:21 PM	2	2	4:22 PM	1	0	1
4:22 PM	4:21 PM	2	2	4:23 PM	0	1	1
4:23 PM 4:23 PM 1 1 1 4:26 PM 1 1 1 2 4:24 PM 0 0 0 0 4:26 PM 2 0 0 2 4:25 PM 1 1 1 4:26 PM 1 1 0 0 1 4:27 PM 2 2 2 4:28 PM 0 0 2 2 2 4:28 PM 3 3 3 3 4:28 PM 2 0 0 2 4:29 PM 4 4 4 4:29 PM 1 1 0 0 1 4:39 PM 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4:22 PM	0	0	4:23 PM	1	0	1
4:23 PM         1         1         4:26 PM         1         1         2           4:24 PM         0         0         4:26 PM         2         0         2           4:25 PM         1         1         1         4:27 PM         1         0         1           4:27 PM         2         2         4:28 PM         0         2         2           4:28 PM         3         3         4:28 PM         0         0         2           4:29 PM         4         4         4         4:29 PM         0         0         0           4:30 PM         1         1         4:30 PM         0         0         0         0           4:31 PM         0         0         0         0         1         1         1           4:32 PM         1         1         4:32 PM         0         1         1         1           4:33 PM         1         1         4:34 PM         1         1         1         2           4:35 PM         0         0         4:34 PM         1         1         1         2           4:36 PM         1         1         4:35 PM         1 <td>4:22 PM</td> <td>1</td> <td>1</td> <td>4:25 PM</td> <td>1</td> <td>1</td> <td>2</td>	4:22 PM	1	1	4:25 PM	1	1	2
4:24 PM         0         0         4:26 PM         2         0         2           4:25 PM         1         1         1         4:27 PW         1         0         1           4:27 PM         2         2         2         4:28 PW         0         2         2           4:28 PM         3         3         4:28 PW         2         0         2         2           4:29 PM         4         4         4:29 PW         1         0         1         1         4:39 PM         0         0         0         0         0         1         1         1         4:39 PM         0         0         0         0         0         0         0         0         1         1         1         4:31 PM         0         0         1         1         1         4:32 PW         0         1         1         1         2         4:33 PW         1         1         1         2         4:33 PW         1         1         1         2         4:35 PW         1         1         1         2         4:35 PW         1         1         1         2         4:35 PW         1         0         1         1	4:23 PM	2	2	4:25 PM	1	0	1
4:25 PM         1         1         4:27 PM         1         0         1           4:27 PM         2         2         4:28 PM         0         2         2           4:29 PM         3         3         4:28 PM         2         0         2           4:29 PM         4         4         4:29 PM         1         0         1           4:29 PM         2         2         4:30 PM         0         0         0           4:30 PM         1         1         1         4:32 PM         0         1         1         1           4:31 PM         0         0         4:32 PM         0         1         2         0         1         1         1         2         4:35 PM         1         1         1         2         4:36 PM         1         1         1         2         4:36 PM         1         1         1<	4:23 PM	1	1	4:26 PM	1	1	2
4:27 PM         2         2         4:28 PM         0         2         2         2           4:28 PM         3         3         4:28 PM         2         0         2         2           4:29 PM         4         4         4:29 PM         0         0         0         0           4:30 PM         1         1         1         4:32 PM         0         1         1         1           4:31 PM         0         0         0         4:32 PM         1         0         1         2         4:35 PM         1         1         1         2         2         4:35 PM         1         1         1         2         2         4:35 PM         1         1	4:24 PM	0	0	4:26 PM	2	0	2
4:28 PM         3         3         4:28 PM         2         0         2           4:29 PM         4         4         4:29 PM         1         0         0           4:29 PM         2         2         4:30 PM         0         0         0           4:30 PM         1         1         1         4:32 PM         0         1         1         1           4:31 PM         0         0         4:32 PM         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         0         1         1         1         2         0         1         1         1         2         0         1         1         1         2         0         0         1         1         1         2         0         2         2         4:36 PM         1         1         1         2         0         0         2         2         4:36 PM         1         1         1         2         2         4:35 PM         1         0         0	4:25 PM	1	1	4:27 PM	1	0	1
4:29 PM         4         4         4:29 PM         0         0         1           4:29 PM         2         2         4:30 PM         0         0         0         0           4:30 PM         1         1         1         4:32 PM         0         1         1         1           4:31 PM         0         0         4:32 PM         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         4:34 PM         1         0         1         1         1         2         4:35 PM         1         1         1         2         2         4:35 PM         1         1         1         1         2         4:35 PM         1         0         0         1         1         1         4:35 PM         1         1         1         4:45 PM<	4:27 PM	2	2	4:28 PM	0	2	2
4:29 PM         2         2         4:30 PM         0         0         0           4:30 PM         1         1         4:32 PM         0         1         1         1           4:31 PM         0         0         0         4:32 PM         1         0         1         1           4:34 PM         1         1         1         4:34 PM         1         1         1         2           4:35 PM         0         0         4:34 PM         1         0         1         1         2           4:35 PM         1         1         1         4:35 PM         1         1         1         2         4:35 PM         1         1         1         2         4:35 PM         1         1         1         2         4:35 PM         1         0         1         1         4:35 PM         1         0         0         1         1         1         2         4:35 PM         1         0         0         1         1         1         4:49 PM         0         0         0         0         0         0         0         0         0         0         0         0         1         1	4:28 PM	3	3	4:28 PM	2	0	2
4:30 PM         1         1         4:32 PM         0         1         1         1           4:31 PM         0         0         4:32 PM         1         0         1           4:34 PM         1         1         1         2         2           4:35 PM         0         0         4:34 PM         1         0         1           4:35 PM         1         1         1         2         0         2           4:36 PM         1         1         1         4:35 PM         1         1         2           4:36 PM         1         1         1         4:35 PM         1         0         1         1           4:36 PM         0         0         0         4:35 PM         1         0         1         1         2         0         2         2         4:36 PM         1         0         0         1         1         1         4:36 PM         1         0         0         1         1         1         4:49 PM         0         0         0         0         0         0         0         1         1         1         1         1         1         1         4:	4:29 PM	4	4	4:29 PM	1	0	1
4:31 PM         0         0         4:32 PM         1         0         1           4:34 PM         1         1         4:34 PM         1         0         1           4:35 PM         0         0         4:34 PM         1         0         1           4:35 PM         1         1         1         4:35 PM         1         1         2           4:36 PM         1         1         1         4:35 PM         2         0         2           4:36 PM         0         0         4:35 PM         1         0         1         1           4:40 PM         0         0         4:35 PM         1         0         0         1           4:40 PM         1         1         1         4:37 PM         0         0         0         0           4:42 PM         0         0         0         4:37 PM         1         0         1         1         1         1         1         2         4:42 PM         0         1         1         1         2         4:43 PM         1         1         1         2         2         4:44 PM         0         0         0         0         <	4:29 PM	2	2	4:30 PM	0	0	0
4:34 PM         1         1         4:34 PM         1         1         2           4:35 PM         0         0         4:34 PM         1         0         1           4:36 PM         1         1         4:35 PM         1         1         2           4:36 PM         0         0         0         2         0         2           4:36 PM         0         0         0         2         0         2           4:36 PM         0         0         0         1         0         1           4:40 PM         0         0         4:35 PM         0         0         0         0           4:40 PM         1         1         4:37 PM         0         1         2         4:42 PM         0         1         1         1         2         4:43 PM         1         1         2         2         4:45 PM         1         1         2         2         2	4:30 PM	1	1	4:32 PM	0	1	1
4:35 PM         0         0         4:34 PM         1         0         1           4:35 PM         1         1         4:35 PM         1         1         2           4:36 PM         1         1         4:35 PM         2         0         2           4:36 PM         0         0         4:35 PM         1         0         1           4:36 PM         0         0         4:35 PM         1         0         1           4:40 PM         2         2         2         4:37 PM         0         0         0           4:42 PM         0         0         0         4:37 PM         1         0         1         1           4:43 PM         1         1         4:38 PM         1         1         2         0         1         2         4:44 PM         3         3         4:39 PM         2         0         2         2         4:45 PM         2         0         0         2         2         2         4:40 PM         0         0         0         0         0         0         0         0         0         2         2         2         2         2         2         2 </td <td>4:31 PM</td> <td>0</td> <td>0</td> <td>4:32 PM</td> <td>1</td> <td>0</td> <td>1</td>	4:31 PM	0	0	4:32 PM	1	0	1
4:35 PM         1         1         4:35 PM         1         1         2           4:36 PM         0         1         1         4:35 PM         2         0         2           4:36 PM         0         0         0         4:35 PM         1         0         1           4:40 PM         0         0         4:37 PM         0         0         0         0           4:42 PM         0         0         4:37 PM         1         2         2         4:44 PM         1         1         1         2         2         4:45 PM         2         2         2         2         4:45 PM         2         2         2         4:45 PM         2	4:34 PM	1	1	4:34 PM	1	1	2
4:36 PM         1         1         4:35 PM         2         0         2           4:36 PM         0         0         4:35 PM         1         0         1           4:40 PM         2         2         4:37 PM         0         0         0           4:40 PM         1         1         4:37 PM         0         1         1           4:42 PM         0         0         4:37 PM         1         0         1           4:43 PM         1         1         4:38 PM         1         1         2           4:44 PM         3         3         4:39 PM         2         0         2           4:45 PM         2         2         4:40 PM         0         0         0           4:45 PM         3         3         4:42 PM         0         0         0         0           4:45 PM         3         3         4:42 PM         0         0         2         2         2           4:45 PM         3         3         4:42 PM         2         0         2         2         2           4:45 PM         3         3         4:43 PM         3         0 <t< td=""><td>4:35 PM</td><td>0</td><td>0</td><td>4:34 PM</td><td>1</td><td>0</td><td>1</td></t<>	4:35 PM	0	0	4:34 PM	1	0	1
4:36 PM         0         0         4:35 PM         1         0         1           4:40 PM         2         2         4:37 PM         0         0         0           4:40 PM         1         1         4:37 PM         0         1         1         1           4:42 PM         0         0         4:37 PM         1         0         1         1         1         1         1         1         1         1         1         1         2         4:42 PM         0         0         1         1         1         2         4:43 PM         1         1         1         2         2         4:44 PM         3         3         4:39 PM         2         0         2         2         4:44 PM         0         2         2         2         2         2         4:40 PM         0         0         2         2         2         4:42 PM         0         0         2         1         3	4:35 PM	1	1	4:35 PM	1	1	2
4:40 PM         2         2         4:37 PM         0         0         0           4:40 PM         1         1         4:37 PM         0         1         1           4:42 PM         0         0         4:37 PM         1         0         1           4:43 PM         1         1         1         4:38 PM         1         1         1         2           4:44 PM         3         3         4:39 PM         2         0         2         2         4:45 PM         0         2         2         2         4:49 PM         0         0         2         2         2         4:42 PM         2         1         3         3         4:43 PM         3         1         1         4:44 PM	4:36 PM	1	1	4:35 PM	2	0	2
4:40 PM       1       1       4:37 PM       0       1       1         4:42 PM       0       0       4:37 PM       1       0       1         4:43 PM       1       1       1       4:38 PM       1       1       2         4:44 PM       3       3       4:39 PM       2       0       2       2         4:45 PM       2       2       4:40 PM       0       0       0       0       0         4:45 PM       3       3       4:42 PM       0       2       2       2       2       4:42 PM       0       2       2       2       4:45 PM       2       0       2       2       2       4:45 PM       3       0       3       3       4:42 PM       0       2       2       2       4:42 PM       2       0       2       2       2       4:42 PM       2       0       2       2       2       4:43 PM       3       0       3       3       4:43 PM       3       0       3       3       4:44 PM       4       0       4:44 PM       4       0       4       4       4:44 PM       4       0       4       4       4:44 PM	4:36 PM	0	0	4:35 PM	1	0	1
4:42 PM       0       0       4:37 PM       1       0       1         4:43 PM       1       1       4:38 PM       1       1       2         4:44 PM       3       3       4:39 PM       2       0       2         4:45 PM       2       2       4:40 PM       0       0       0       0         4:45 PM       3       3       4:42 PM       0       2       2       2         4:45 PM       2       2       4:42 PM       2       0       2       2         4:45 PM       3       3       4:43 PM       2       1       3       3         4:46 PM       2       2       4:43 PM       3       0       3       3         4:47 PM       0       0       4:43 PM       3       1       4       4         4:49 PM       1       1       4:44 PM       4       0       4       4         4:50 PM       1       1       4:45 PM       2       0       2       2         4:50 PM       3       3       4:46 PM       0       0       0       0         4:52 PM       3       3       4:48	4:40 PM	2	2	4:37 PM	0	0	0
4:43 PM       1       1       4:38 PM       1       1       2         4:44 PM       3       3       4:39 PM       2       0       2         4:45 PM       2       2       4:40 PM       0       0       0         4:45 PM       3       3       4:42 PM       0       2       2         4:45 PM       2       2       4:42 PM       2       0       2         4:45 PM       3       3       4:43 PM       2       1       3         4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM<	4:40 PM	1	1	4:37 PM	0	1	1
4:44 PM       3       3       4:39 PM       2       0       2         4:45 PM       2       2       4:40 PM       0       0       0         4:45 PM       3       3       4:42 PM       2       0       2         4:45 PM       2       2       4:42 PM       2       0       2         4:45 PM       3       3       4:43 PM       2       1       3         4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:55 PM       3       3       4:48 PM<	4:42 PM	0	0	4:37 PM	1	0	1
4:45 PM       2       2       4:40 PM       0       0       0         4:45 PM       3       3       4:42 PM       0       2       2         4:45 PM       2       2       4:42 PM       2       0       2         4:45 PM       3       3       4:43 PM       2       1       3         4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM<	4:43 PM	1	1	4:38 PM	1	1	
4:45 PM       3       3       4:42 PM       0       2       2         4:45 PM       2       2       4:42 PM       2       0       2         4:45 PM       3       3       4:43 PM       2       1       3         4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:44 PM	3	3	4:39 PM	2	0	2
4:45 PM       2       2       4:42 PM       2       0       2         4:45 PM       3       3       4:43 PM       2       1       3         4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:45 PM	2	2	4:40 PM	0	0	0
4:45 PM       3       3       4:43 PM       2       1       3         4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:45 PM	3		4:42 PM	0	2	
4:46 PM       2       2       4:43 PM       3       0       3         4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:45 PM	2		4:42 PM	2	0	
4:47 PM       0       0       4:43 PM       3       1       4         4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:45 PM			4:43 PM		1	
4:49 PM       1       1       4:44 PM       4       0       4         4:50 PM       2       2       4:44 PM       2       0       2         4:50 PM       1       1       4:45 PM       1       0       1         4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:46 PM	2		4:43 PM		0	
4:50 PM         2         2         4:44 PM         2         0         2           4:50 PM         1         1         4:45 PM         1         0         1           4:52 PM         3         3         4:46 PM         0         0         0           4:53 PM         4         4         4:47 PM         0         2         2           4:54 PM         3         3         4:48 PM         2         1         3           4:54 PM         2         2         4:48 PM         3         0         3           4:55 PM         3         3         4:49 PM         2         0         2	4:47 PM	0		4:43 PM	3	1	4
4:50 PM         1         1         4:45 PM         1         0         1           4:52 PM         3         3         4:46 PM         0         0         0           4:53 PM         4         4         4:47 PM         0         2         2           4:54 PM         3         3         4:48 PM         2         1         3           4:54 PM         2         2         4:48 PM         3         0         3           4:55 PM         3         3         4:49 PM         2         0         2				4:44 PM			
4:52 PM       3       3       4:46 PM       0       0       0         4:53 PM       4       4       4:47 PM       0       2       2         4:54 PM       3       3       4:48 PM       2       1       3         4:54 PM       2       2       4:48 PM       3       0       3         4:55 PM       3       3       4:49 PM       2       0       2	4:50 PM	2		4:44 PM	2	0	2
4:53 PM         4         4         4:47 PM         0         2         2           4:54 PM         3         3         4:48 PM         2         1         3           4:54 PM         2         2         4:48 PM         3         0         3           4:55 PM         3         3         4:49 PM         2         0         2	4:50 PM			4:45 PM		0	
4:54 PM     3     3     4:48 PM     2     1     3       4:54 PM     2     2     4:48 PM     3     0     3       4:55 PM     3     3     4:49 PM     2     0     2	4:52 PM	3					
4:54 PM         2         2         4:48 PM         3         0         3           4:55 PM         3         3         4:49 PM         2         0         2	4:53 PM			4:47 PM		2	
4:55 PM 3 3 4:49 PM 2 0 2	4:54 PM			4:48 PM		1	
	4:54 PM	2		4:48 PM	3	0	
4:57 PM 4 4 4:50 PM 1 0 1	4:55 PM	3		4:49 PM	2	0	2
	4:57 PM	4	4	4:50 PM	1	0	1

4:58 PM	3	3	4:50 PM	1	3	4
4:58 PM	4	4	4:51 PM	4	0	4
4:59 PM	3	3	4:52 PM	2	0	2
5:00 PM	4	4	4:53 PM	1	1	2
5:00 PM	3	3	4:53 PM	2	0	2
5:02 PM	2	2	4:53 PM	1	0	1
5:02 PM	1	1	4:54 PM	1	1	2
5:03 PM	2	2	4:54 PM	2	0	2
5:03 PM	1	1	4:54 PM	2	1	3
5:04 PM	2	2	4:54 PM	3	0	3
5:06 PM	1	1	4:55 PM	1	0	1
5:07 PM	0	0	4:56 PM	1	1	2
5:08 PM	1	1	4:57 PM	0	1	1
5:09 PM	3	3	4:57 PM	1	0	1
5:10 PM	4	4	4:58 PM	0	1	1
5:10 PM	5	5	4:58 PM	1	0	1
5:11 PM	7	7	5:00 PM	0	0	0
5:12 PM	5	5	5:02 PM	0	2	2
5:12 PM	3	3	5:02 PM	2	0	2
5:13 PM	4	4	5:03 PM	1	1	2
5:13 PM	3	3	5:03 PM	2	0	2
5:14 PM	4	4	5:04 PM	1	0	1
5:15 PM	5	5	5:06 PM	0	3	3
5:16 PM	6	6	5:06 PM	3	0	3
5:17 PM	7	7	5:06 PM	3	1	4
5:18 PM	4	4	5:06 PM	4	0	4
5:19 PM	2	2	5:08 PM	3	3	6
5:19 PM	1	1	5:08 PM	6	0	6
5:20 PM	2	2	5:09 PM	4	2	6
5:21 PM	3	3	5:09 PM	6	0	6
5:22 PM	4	4	5:10 PM	5	0	5
5:23 PM	5	5	5:10 PM	4	0	4
5:24 PM	4	4	5:10 PM	4	1	5
5:24 PM	3	3	5:10 PM	5	0	5
5:25 PM	4	4	5:11 PM	3	0	3
5:25 PM	2	2	5:12 PM	3	2	5
5:26 PM	3	3	5:12 PM	5	0	5
5:26 PM	4	4	5:13 PM	4	0	4
5:26 PM	2	2	5:14 PM	3	0	3
5:27 PM	3	3	5:15 PM	2	0	2
5:28 PM	2	2	5:16 PM	1	0	1

E 20 DM	1	1	E 17 DN 4			0
5:28 PM	1	1	5:17 PM	0	0	0
5:28 PM	2	2	5:19 PM	0	1	1
5:31 PM	3	3	5:19 PM	1	1	2
5:32 PM	5	5	5:19 PM	2	0	2
5:34 PM	6	6	5:20 PM	1	1	2
5:35 PM	7	7	5:20 PM	3	1	4
5:36 PM	6	6	5:21 PM	2	1	3
5:37 PM	4	4	5:21 PM	3	0	3
5:38 PM	6	6	5:21 PM	3	2	5
5:39 PM	5	5	5:22 PM	4	0	4
5:40 PM	6	6	5:22 PM	4	1	5
5:41 PM	5	5	5:22 PM	5	0	5
5:42 PM	4	4	5:23 PM	4	0	4
5:42 PM	5	5	5:23 PM	4	1	5
5:43 PM	7	7	5:23 PM	5	0	5
5:43 PM	5	5	5:24 PM	4	0	4
5:44 PM	6	6	5:24 PM	4	1	5
5:44 PM	5	5	5:24 PM	5	0	5
5:44 PM	3	3	5:25 PM	4	1	5
5:45 PM	5	5	5:25 PM	5	0	5
5:46 PM	6	6	5:26 PM	4	0	4
5:47 PM	7	7	5:27 PM	3	0	3
5:47 PM	5	5	5:28 PM	2	1	3
5:48 PM	4	4	5:28 PM	3	0	3
5:48 PM	6	6	5:29 PM	3	0	3
5:48 PM	4	4	5:31 PM	2	0	2
5:48 PM	3	3	5:32 PM	0	0	0
5:49 PM	4	4	5:33 PM	0	1	1
5:49 PM	2	2	5:33 PM	1	0	1
5:49 PM	1	1	5:33 PM	1	1	2
5:50 PM	3	3	5:34 PM	2	0	2
5:50 PM	4	4	5:34 PM	1	2	3
5:50 PM	2	2	5:34 PM	3	0	3
5:51 PM	3	3	5:34 PM	3	2	5
5:51 PM	2	2	5:35 PM	5	0	5
5:51 PM	1	1	5:35 PM	4	0	4
5:52 PM	2	2	5:36 PM	4	1	5
5:53 PM	4	4	5:36 PM	5	0	5
5:53 PM	3	3	5:36 PM	4	0	4
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5:55 PM	3	3	5:38 PM	2	2	4

5:56 PM	2	2	5:38 PM	4	0	4
5:56 PM	1	1	5:39 PM	4	1	5
5:56 PM	0	0	5:39 PM	5	2	7
5:57 PM	2	2	5:40 PM	6	0	6
5:58 PM	3	3	5:40 PM	6	3	9
5:58 PM	2	2	5:41 PM	9	1	10
5:59 PM	3	3	5:41 PM	10	0	10
5:59 PM	2	2	5:42 PM	9	0	9
6:00 PM	4	4	5:43 PM	8	0	8
6:00 PM	2	2	5:43 PM	7	0	7
6:02 PM	3	3	5:44 PM	6	0	6
6:03 PM	4	4	5:45 PM	5	1	6
6:04 PM	5	5	5:45 PM	5	0	5
6:04 PM	4	4	5:45 PM	4	0	4
6:04 PM	2	2	5:46 PM	3	1	4
6:06 PM	4	4	5:47 PM	3	0	3
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6:18 PM	2	2	5:56 PM	3	0	3
6:19 PM	1	1	5:57 PM	2	0	2
6:20 PM	2	2	5:57 PM	1	1	2
6:20 PM	1	1	5:57 PM	2	0	2
6:21 PM	2	2	5:58 PM	2	1	3
6:22 PM	4	4	5:59 PM	3	0	3

6:23 PM	5	5	5:59 PM	2	1	3
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6:23 PIVI 6:24 PM	3	3	6:00 PM	2	0	2
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		6	6:00 PIVI		1	2
6:25 PM	6	5		1	·	1
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6:49 PM	7	7	6:21 PM	5	1	6
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			6:41 PM	9	1	10
			6:41 PM	10	0	10
			6:42 PM	10	2	12
			6:42 PM	12	0	12
			6:43 PM	12	1	13
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6:43 PM	12	0	12
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6:57 PM	11	0	11
6:58 PM	10	0	10
6:58 PM	9	3	12
6:59 PM	12	0	12
6:59 PM	11	1	12
7:00 PM	12	0	12

Location: Raising Canes - 26782 Portola Pkwy

City: Foothill Ranch, CA

Date: 9/26/2020 Day: Saturday

Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total	Time	Number of Cars In Zone 1	Number of Cars In Zone 2	Number of Cars In Zone 3	Total
11:00 AM	2	0	0	2	4:00 PM	0	2	0	2
11:01 AM	2	0	0	2	4:01 PM	1	1	0	2
11:02 AM	2	0	0	2	4:02 PM	1	0	0	1
11:03 AM	1	1	0	2	4:03 PM	2	0	0	2
11:04 AM	3	1	0	4	4:04 PM	2	1	0	3
11:05 AM	3	1	0	4	4:05 PM	2	0	0	2
11:06 AM	2	1	1	4	4:06 PM	2	0	0	2
11:07 AM	3	0	0	3	4:07 PM	1	0	0	1
11:08 AM	3	0	0	3	4:08 PM	1	1	0	2
11:09 AM	2	1	0	3	4:09 PM	1	1	0	2
11:10 AM	2	0	0	2	4:10 PM	2	1	0	3
11:11 AM	1	0	0	1	4:11 PM	2	2	0	4
11:12 AM	0	0	0	0	4:12 PM	3	1	0	4
11:13 AM	1	0	0	1	4:13 PM	3	1	1	5
11:14 AM	2	0	0	2	4:14 PM	4	2	0	6
11:15 AM	1	0	0	1	4:15 PM	4	1	0	5
11:16 AM	1	0	0	1	4:16 PM	4	1	0	5
11:17 AM	2	0	0	2	4:17 PM	4	0	0	4
11:18 AM	2	1	0	3	4:18 PM	4	2	0	6
11:19 AM	3	0	0	3	4:19 PM	5	1	0	6
11:20 AM	3	1	0	4	4:20 PM	5	1	0	6
11:21 AM	3	1	0	4	4:21 PM	5	1	0	6
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11:30 AM	6	1	0	7	4:30 PM	7	0	1	8
11:31 AM	7	1	0	8	4:31 PM	7	1	0	8
11:32 AM	6	1	1	8	4:32 PM	6	0	0	6
11:33 AM	7	2	2	11	4:33 PM	5	0	0	5
11:34 AM	7	2	1	10	4:34 PM	6	0	0	6
11:35 AM	7	2	0	9	4:35 PM	6	0	0	6
11:36 AM	7	0	0	7	4:36 PM	5	0	0	5
11:37 AM	6	1	0	7	4:37 PM	6	1	0	7
11:38 AM	5	1	0	6	4:38 PM	7	0	0	7
11:39 AM	6	0	0	6	4:39 PM	7	2	0	9
11:40 AM	5	2	0	7	4:40 PM	7	1	0	8

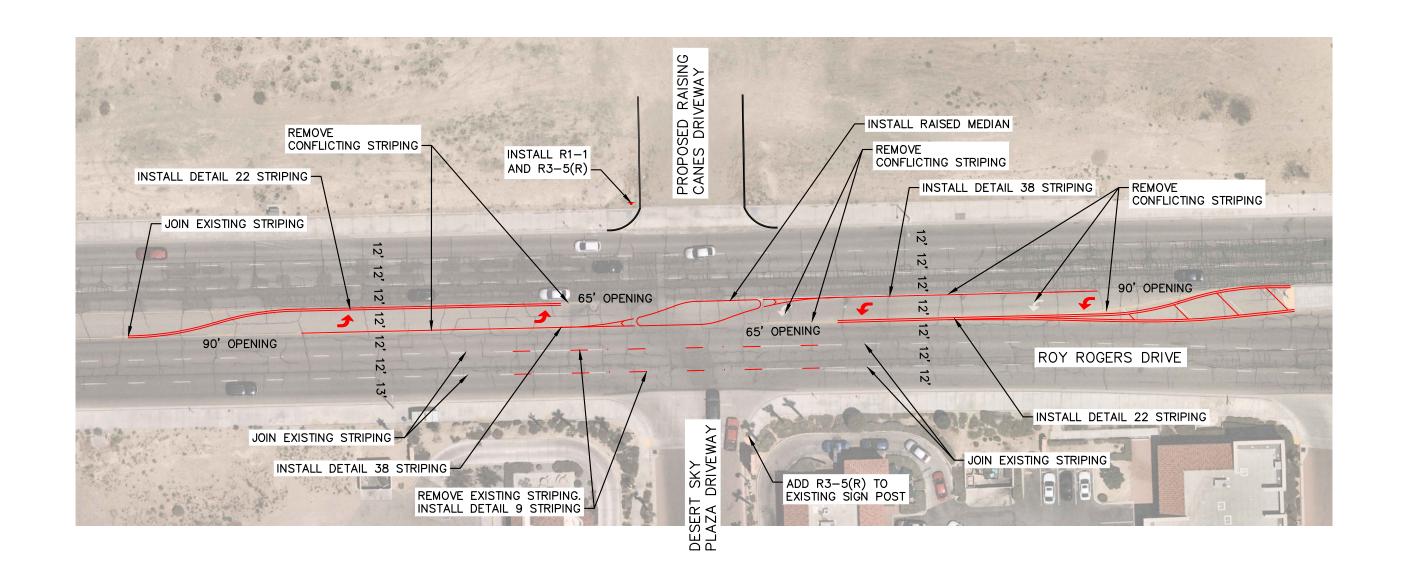
1952 AND			1				1		1	
1838   7	11:41 AM	7	2	3	12	4:41 PM	7	2	0	9
1948-866	11:42 AM	7	3	2	12	4:42 PM	7	2	0	9
1984   7	11:43 AM	7	2	2	11	4:43 PM	7	1	1	9
1346 AM	11:44 AM	7	3	0	10	4:44 PM	7	2	1	10
19.47   19.48   19.4	11:45 AM	7	3	0	10	4:45 PM	7	1	1	9
11-13-24 AM	11:46 AM	6	2	0	8	4:46 PM	7	1	1	9
13.88 AM	11:47 AM	6		0	8	4:47 PM	7	1	0	8
13.89 AM	11:48 AM				6	4:48 PM		1		
150 AM	11:49 AM					4:49 PM		1		9
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12:34 PM	7	3	0	10	5:34 PM	7	8	2	17
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12:47 PM				11	5:47 PM		7		13
12:47 FW	7	4	0		5:48 PM	6		0	
	7	5	0	12		7	7	0	14
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1:57 PM	7	7	0	14	6:57 PM	7	8	3	18
1:58 PM	7	8	0	15	6:58 PM	7	8	3	18
1:59 PM	7	8	1	16	6:59 PM	7	9	2	18

APPENDIX **F** 

ROY ROGERS DRIVE STRIPING CONCEPT





APPENDIX F ROY ROGERS DRIVE STRIPING CONCEPT

