

TRAFFIC STUDY
(LOCAL TRANSPORTATION ASSESSMENT)
PROPOSED WAREHOUSE
407 SPRECKELS AVENUE
CITY OF MANTECA

Prepared for:
PROLOGIS, L.P.

November 2024

Prepared by:



1800 30TH STREET, SUITE 260
BAKERSFIELD, CALIFORNIA 93301

DRAFT

John D. Schuler, RCE 51825

TABLE OF CONTENTS

	Page
INTRODUCTION	1
FIGURE 1: VICINITY MAP.....	2
FIGURE 2: LOCATION MAP	3
FIGURE 3: SITE PLAN	4
PROJECT TRIP GENERATION	6
TABLE 1: PROJECT TRIP GENERATION	7
PROJECT TRIP DISTRIBUTION AND ASSIGNMENT	7
TABLE 2: PROJECT TRIP DISTRIBUTION	7
FIGURE 4a: PROJECT TRIP DISTRIBUTION PERCENTAGES.....	9
FIGURE 4b: PROJECT PEAK HOUR TRAFFIC	10
FIGURE 5: 2024 PEAK HOUR TRAFFIC	11
FIGURE 6: 2024+PROJECT PEAK HOUR TRAFFIC	12
FIGURE 7: 2025+NEAR-TERM CUMULATIVE PEAK HOUR TRAFFIC	13
FIGURE 7: 2025+NEAR-TERM CUMULATIVE+PROJECT PEAK HOUR TRAFFIC	14
INTERSECTION ANALYSIS	15
TABLE 3a: INTERSECTION LOS, WEEKDAY PM PEAK HOUR	16
TABLE 3b: INTERSECTION LOS, WEEKDAY AM PEAK HOUR	16
TRAFFIC SIGNAL WARRANT ANALYSIS.....	17
TABLE 4a: WARRANTS 1 EIGHT HOUR	17
TABLE 4b: WARRANTS 2 FOUR HOUR	17
TABLE 4c: WARRANTS 3 PEAK HOUR.....	18
ROADWAY ANALYSIS	18
TABLE 5a: PM ROADWAY LEVEL OF SERVICE	19
TABLE 5b: AM ROADWAY LEVEL OF SERVICE	19
BICYCLE AND PEDESTRIAN FACILITIES	20
SUMMARY AND CONCLUSIONS	21
REFERENCES	22
APPENDIX.....	23

INTRODUCTION

The purpose of this study is to evaluate the potential traffic impacts of a proposed warehouse located at 407 Spreckels Avenue, south of Yosemite Avenue in Manteca, California. A vicinity map is presented in Figure 1 and a location map is presented in Figure 2.

The study methodology and vehicle miles traveled analysis are consistent with the California Department of Transportation (Caltrans) “Guide for the Preparation of Traffic Impact Studies,” dated December 2002 and the City of Manteca SB 743 Implementation Policy, dated 2022. The scope of the study includes five intersections (2 signalized and 3 unsignalized, stop-controlled).

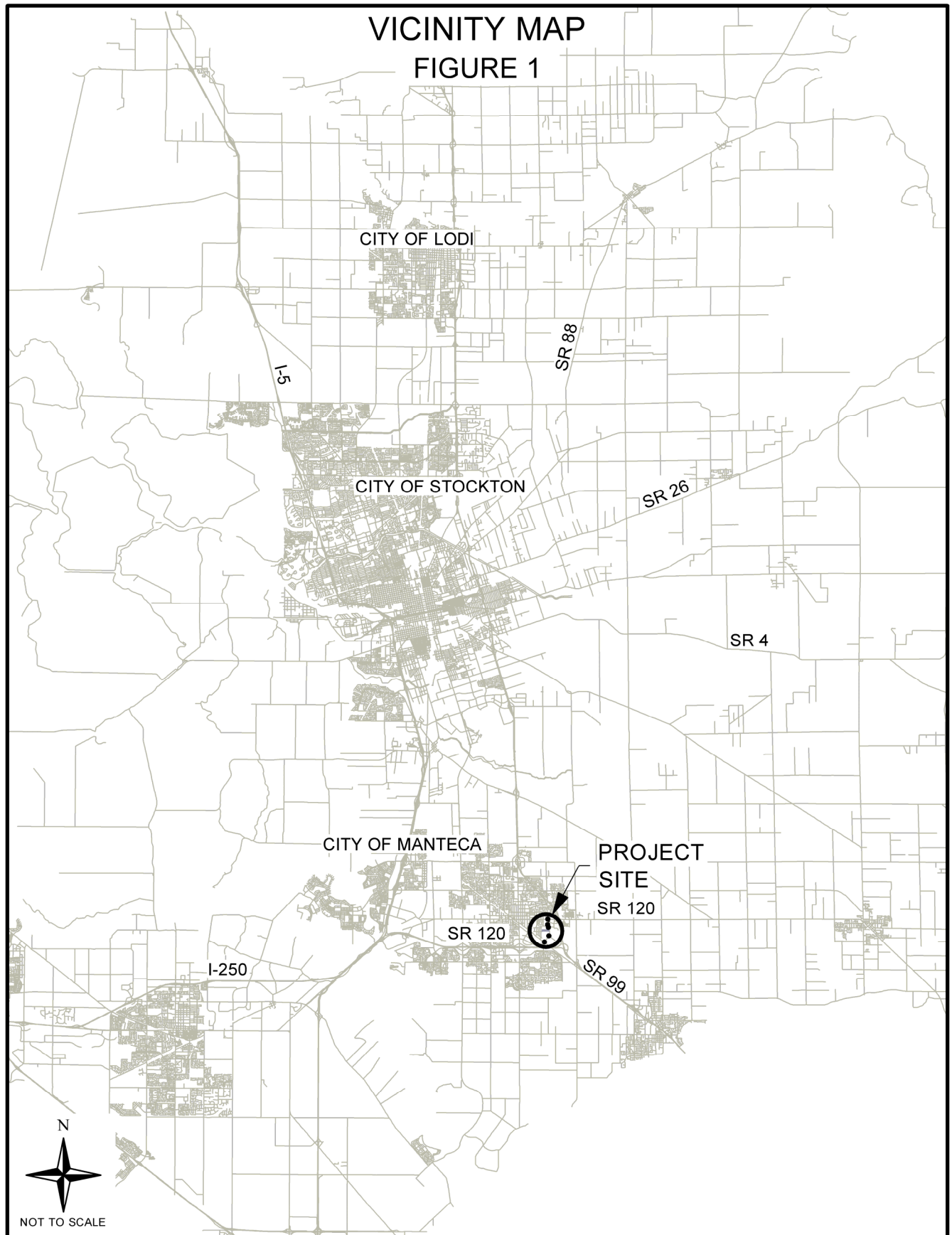
A. Project Land Use and Site Access

The project site is situated on approximately 14.83 gross acres of undeveloped vacant land. The property is zoned Business Industrial Park (BIP) with a General Plan Land Use designation of Light Industrial (LI). The project is specifically defined for warehousing, with a building size of 289,449 sf. The site plan shows 184 and 83 Auto/EV and Truck/Trailer parking stalls, respectively. The site layout has been positioned to locate truck parking along the south side of the project, with auto parking at the east and west ends of the project. The proposed warehouse is consistent with the approved land use designation and zoning.

Primary site access will be provided to the project along Spreckels Avenue through two driveways, with truck traffic utilizing the southerly driveway as primary site access, a site plan is provided in Figure 3.

B. Existing Land Uses in Project Vicinity

The surrounding land uses include Spreckels Avenue to the east, commercial and industrial land uses to the north and south, and single-family residential units to the west. An eight-foot solid sound wall extends along the western site boundary, and the Manteca Tidewater Bikeway extends along the eastern site boundary.



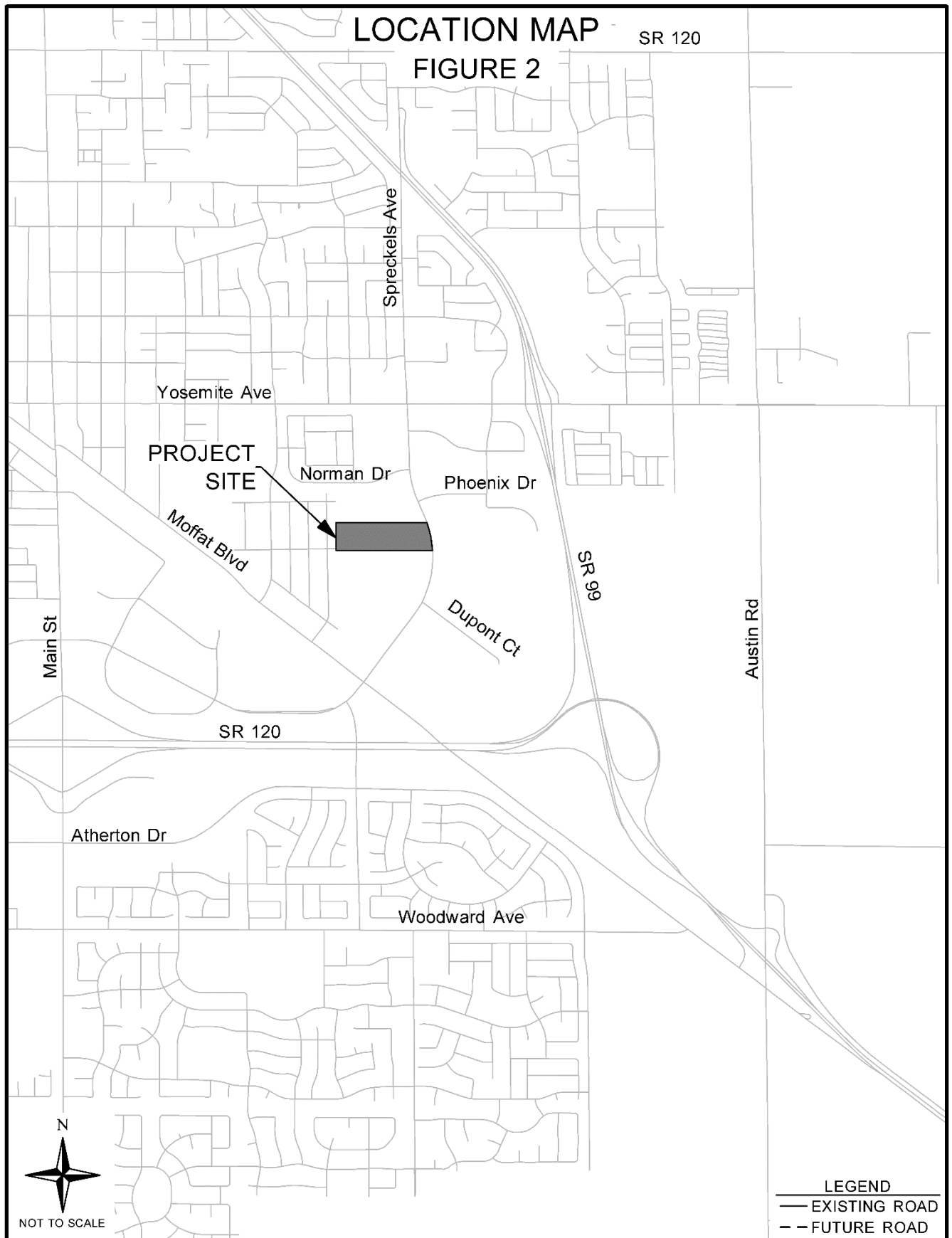


FIGURE 3



HFA, Inc.
510 Grand Ave., Suite 302
Oakland, CA
94610
tel: 913-860-1770
email: hfa@hfa.com

Owner:



101 California St., Suite 1000
San Francisco, CA 94101
Tel: (415) 788-6300

Project:

407 SPRECKELS

MANTECA, CA

Consultants:

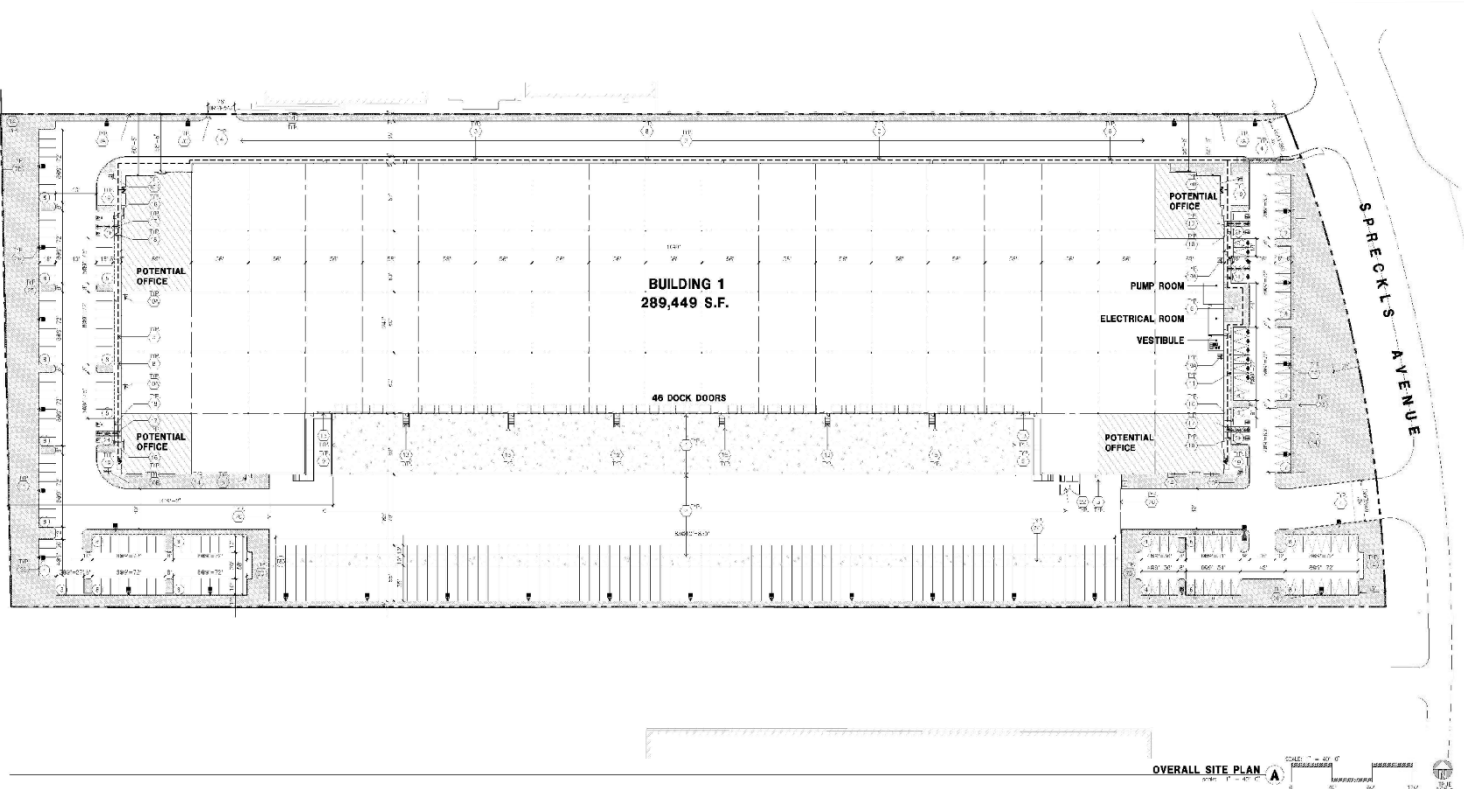
IVT	KIRK & WRIGHT
STRUCTURAL	
TECHNICAL	
LIVING	
ELECTRICAL	
LANDSCAPE	TAD PLANNING
ERFESTTER	
REPLACED	

Title: CMTRA I SITE PLAN

Project Number: 1303
Drawn by: ST
Date: 04/02/14
Revision:

Sheet

DAB-A1.1



SITE PLAN KEYNOTES

1	1. JAVI OTOM TUN DUNOTI PUNOTI ECU TUN DUNOTI.	26	26. AGGASINGI ECU DUN.
2	2. JAVI OTOM TUN DUNOTI PUNOTI ECU TUN DUNOTI.	27	27. ECU DUN.
3	3. AGGASINGI ECU TUN.	28	28. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
4	4. DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	29	29. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
5	5. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	30	30. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
6	6. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	31	31. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
7	7. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	32	32. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
8	8. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	33	33. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
9	9. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	34	34. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
10	10. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	35	35. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
11	11. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	36	36. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
12	12. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	37	37. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
13	13. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	38	38. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
14	14. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	39	39. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
15	15. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	40	40. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
16	16. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	41	41. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
17	17. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	42	42. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
18	18. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	43	43. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
19	19. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	44	44. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
20	20. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	45	45. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
21	21. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	46	46. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
22	22. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	47	47. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
23	23. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	48	48. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
24	24. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	49	49. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.
25	25. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.	50	50. ECU TUN DUNOTI PUNOTI ECU TUN DUNOTI.

SITE PLAN GENERAL NOTES

- [illegible]

SITE LEGEND

- [illegible]

TABULATION

[illegible]

C. Roadway Descriptions

Dupont Court is an east-west minor collector that extends east from Spreckels Avenue. In the vicinity of the project, it exists as a two-lane roadway and provides access to industrial land uses.

Moffatt Boulevard is a northwest-southeast major collector that extends from South Main Street to southbound State Route 99. In the vicinity of the project, it exists as a two-lane roadway and provides access to industrial, agricultural, commercial, and residential land uses.

Norman Drive is an east-west major collector that extends east from Hutchings Street to Spreckels Avenue. In the vicinity of the project, it exists as a two-lane roadway and provides access to industrial, commercial, and residential land uses.

Phoenix Drive is an east-west minor collector that extends from Spreckels Avenue to Commerce Avenue. In the vicinity of the project, it exists as a two-lane roadway and provides access to industrial and commercial land uses.

Spreckels Avenue/Industrial Park Drive is a north-south arterial and a designated STAA route that extends from Yosemite Avenue to South Main Street. In the vicinity of the project, it exists as a four-lane roadway and provides access to industrial, commercial, and agricultural land uses.

Yosemite Avenue is an east-west arterial that extends through a major portion of the City of Manteca and continues as State Route 120 east of State Route 99. The segment from Spreckels Avenue and State Route 99 is a designated STAA route. In the vicinity of the project, it exists as a four to five-lane roadway and provides access to commercial and residential land uses.

PROJECT TRIP GENERATION

The project trip generation volumes shown in Table 1a were estimated using the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition. The ITE Trip Generation Manual contains trip generation rates for each of the possible warehouse types. However, each type has distinctive characteristics for overall daily and AM and PM peak hour traffic, as well as differences in the percentage breakdown between automobiles and trucks. Given that a user has not yet been identified, a blended rate was developed using a combination of warehouse types to cover the maximum potential trip generation anticipated for the project. The blended rate uses the (157) High-Cube Cold Storage rate for the daily traffic, and the (150) General Warehouse rate for the peak hour traffic, as noted in bold.

Table 1a
Project Trip Generation Detail

General Information			Daily Trips		AM Peak Hour Trips			PM Peak Hour Trips			
ITE Code	Development Type	Variable	ADT RATE	ADT	Rate	In % Split/ Trips	Out % Split/ Trips		Rate	In % Split/ Trips	Out % Split/ Trips
157a	High-Cube Cold Storage Warehouse - Cars	289.45 1000 sq ft GFA	1.37	397	0.08	N/A ¹	N/A ¹		0.09	N/A ¹	N/A ¹
						23				26	
157b	High-Cube Cold Storage Warehouse - Trucks	289.45 1000 sq ft GFA	0.75	217	0.03	N/A ¹	N/A ¹		0.03	N/A ¹	N/A ¹
						9				9	
150a	Warehousing - Cars	289.45 1000 sq ft GFA	1.11	321	0.15	77% 33	23% 10		0.15	28% 12	72% 31
150b	Warehousing - Trucks	289.45 1000 sq ft GFA	0.6	174	0.02	52% 3	48% 3		0.03	52% 5	48% 4
Total:				614		36	13			17	35

¹Total trips are shown since the ITE Code for this category does not contain directional distribution

This blended rate, as shown in Table 1b, captures the maximum potential generation for daily and peak hour trip generation for general warehousing, high-cube transload, cold storage or high-cube fulfillment center (non-sort) to provide a conservative assessment of the project's impacts upon the surrounding roadway network.

Table 1b**Project Trip Generation**

General Information			Daily Trips		AM Peak Hour Trips			PM Peak Hour Trips				
ITE Code	Development Type	Variable	ADT RATE	ADT	Rate	In % Split/ Trips	Out % Split/ Trips	Total % Split/ Trips	Rate	In % Split/ Trips	Out % Split/ Trips	Total % Split/ Trips
-	High-Cube Cold Storage Warehouse - Cars	289.45 1000 sq ft GFA	1.37	397	0.15	77% 33	23% 10	100% 43	0.15	28% 12	72% 31	100% 43
-	High-Cube Cold Storage Warehouse - Trucks	289.45 1000 sq ft GFA	0.75	217	0.02	52% 3	48% 3	100% 6	0.03	52% 5	48% 4	100% 9
Total:			2.12	614	0.17	36	13	49	0.18	17	35	52

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

The distribution of project peak hour trips is shown in Table 2 and represents the movement of traffic accessing the project site by direction. The project trip distribution was developed based on site location and travel patterns anticipated for the proposed land uses as shown in Figures 4A and 4B.

Table 2
Project Trip Distribution

Direction	Percent
North	35
East	20
South	30
West	15

The City of Manteca's guidelines contain requirements for two levels of traffic impact analysis based on a project's consistency with the General Plan and project ADT as follows:

Local Transportation Study (LTS)

- A LTS will be required if a project exceeds 1,000 ADT and is consistent with the adopted General Plan. If a project is inconsistent with the adopted General Plan, an LTS will be required if the project exceeds 500 ADT.

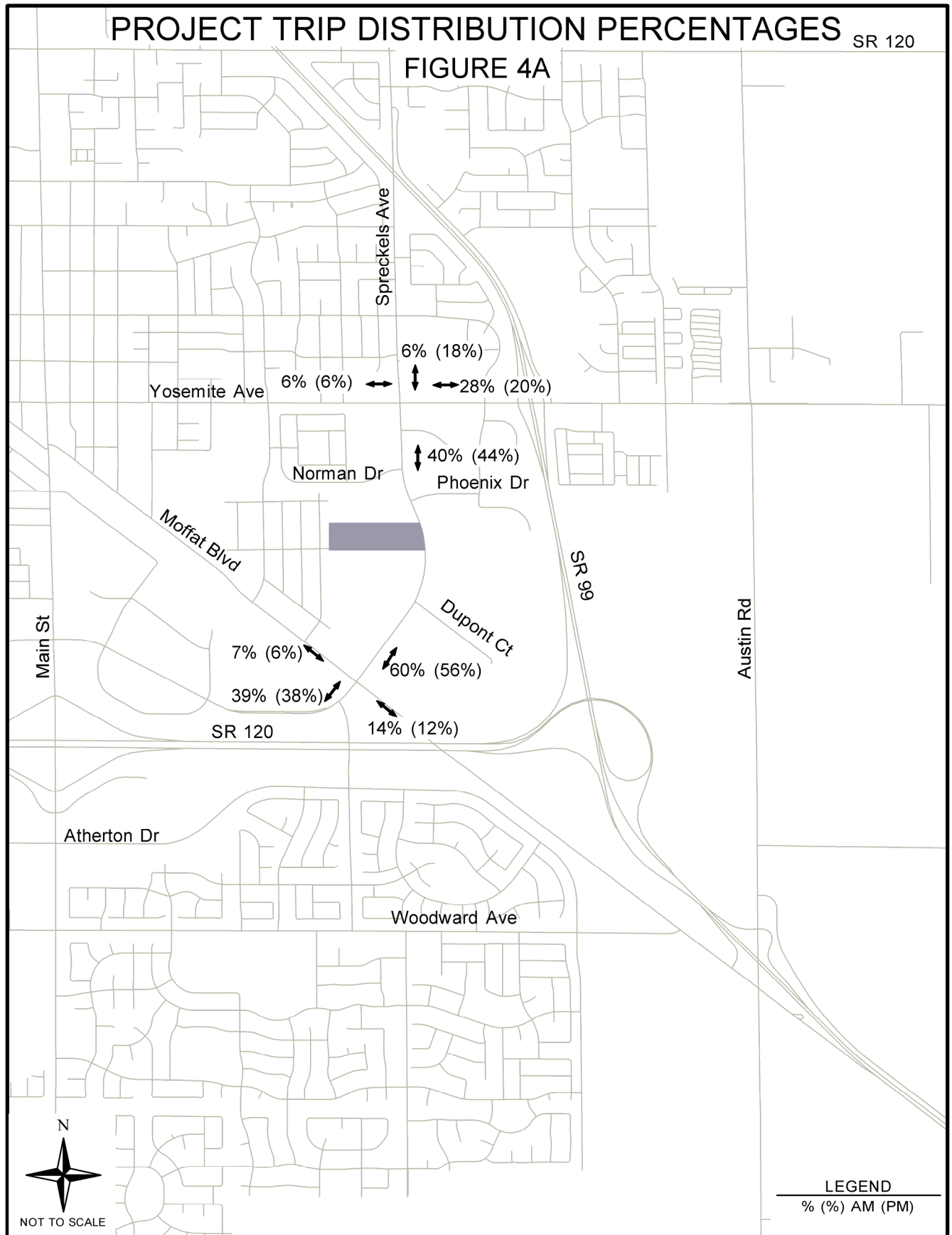
Local Transportation Assessment (LTA)

- An LTA will be required if a project is less than 1,000 ADT but is anticipated to influence the surrounding environment.

A Local Transportation Assessment (LTA) will be required to analyze the following scenarios based on the thresholds identified for the project's ADT as follows.

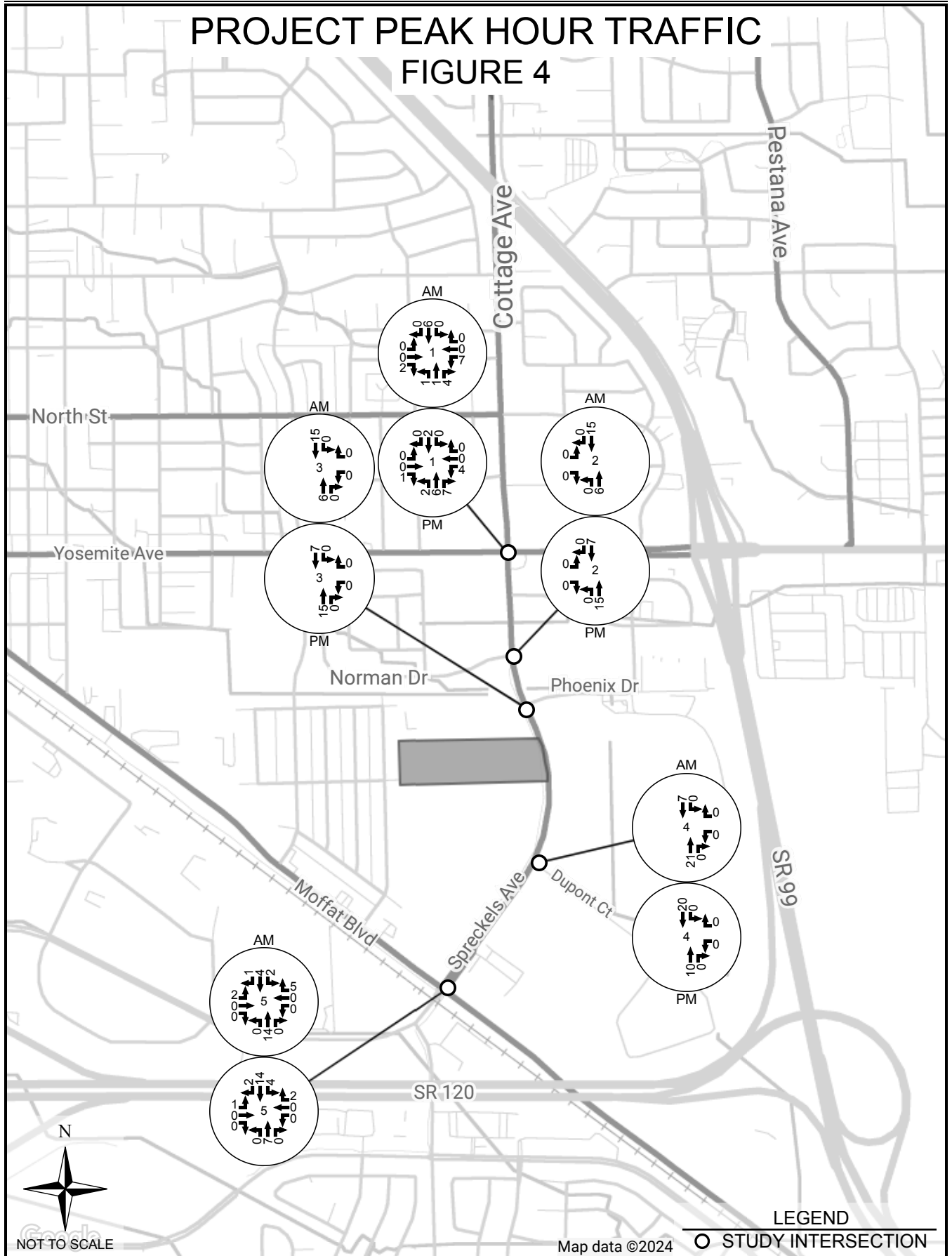
1. A project that generates between 200-500 ADT will be required to analyze existing conditions and existing conditions plus project.
2. A project that generates between 500-1,000 ADT will be required to analyze existing conditions, existing conditions plus project, existing conditions plus near-term cumulative projects, and existing conditions plus near-term cumulative projects plus project.

Since this project is consistent with the General Plan and has an ADT of 614 it meets the requirements for an LTA, Scenario 2. Therefore, the analysis was performed in accordance with the guidelines noted above. Existing peak hour turning movements counts were obtained on May 7, 2024, for all intersections with the exception of Dupont Court, which was obtained July 10, 2024. Updated counts were obtained on November 6, 2024, at the intersections of Norman Drive, Phoenix Drive, and DuPont Court along Spreckels Avenue, with the updated 2024 peak hour volumes being shown in Figure 5, and 2024 plus project peak hour volumes shown in Figure 6. The 2025 plus near-term cumulative projects scenario was derived in consultation with City of Manteca staff, where it was determined that there are no known projects currently planned in the surrounding area. Therefore, a conservative approach was taken to apply an approximate growth rate of 2.8 percent to the existing peak hour turning movements to generate the 2025 plus near-term cumulative projects scenarios without and with project traffic, which are shown in Figures 7 and 8, respectively.



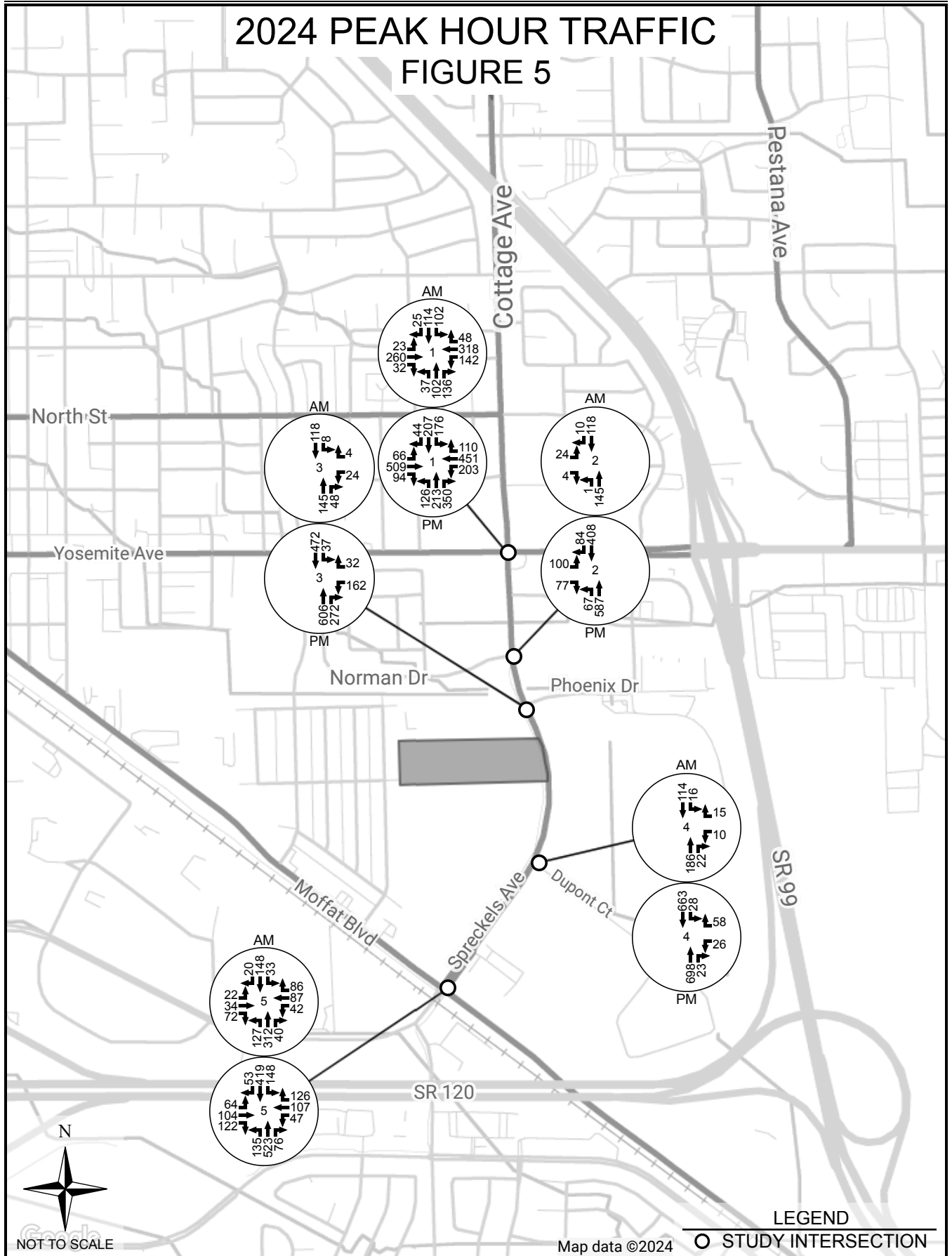
PROJECT PEAK HOUR TRAFFIC

FIGURE 4



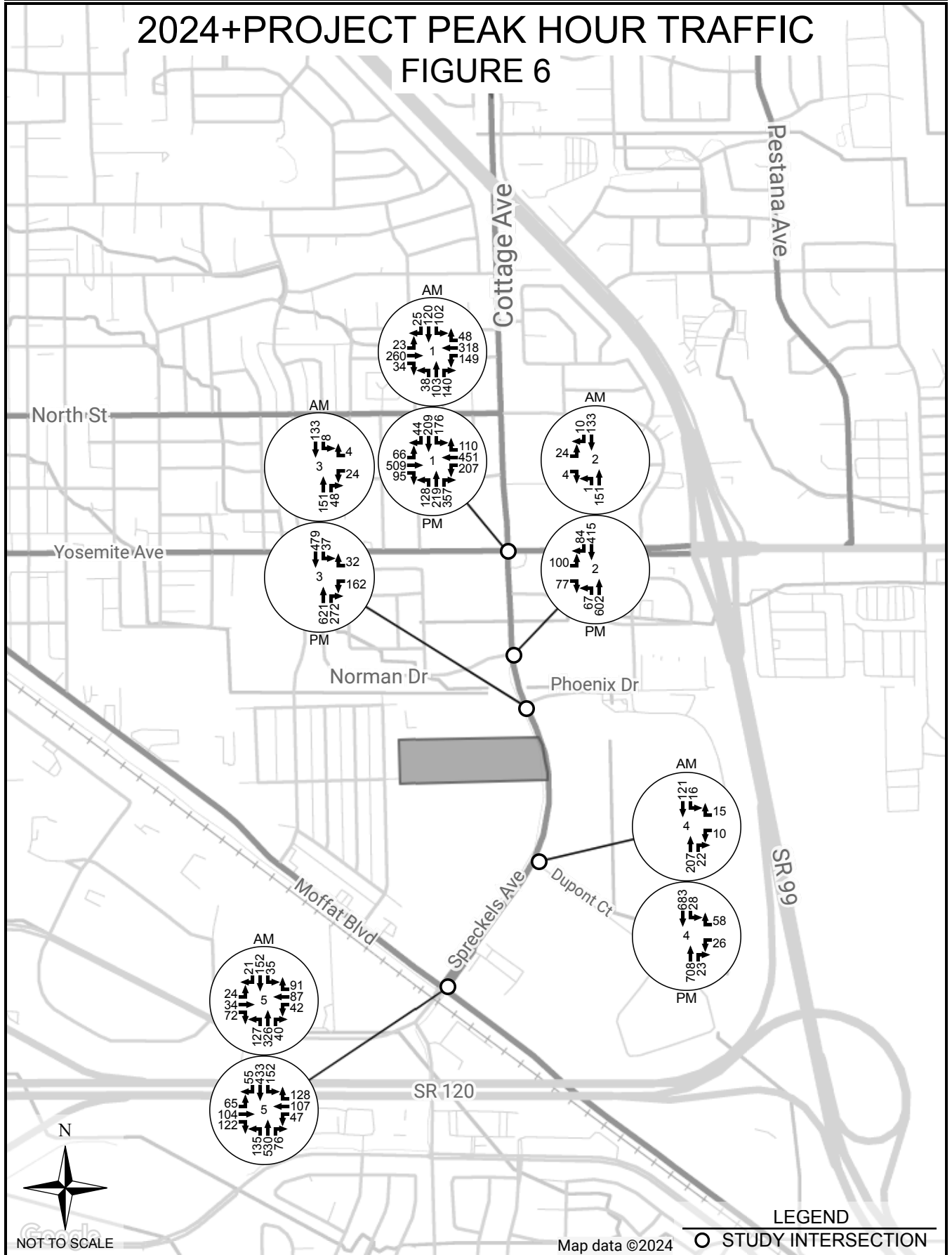
2024 PEAK HOUR TRAFFIC

FIGURE 5

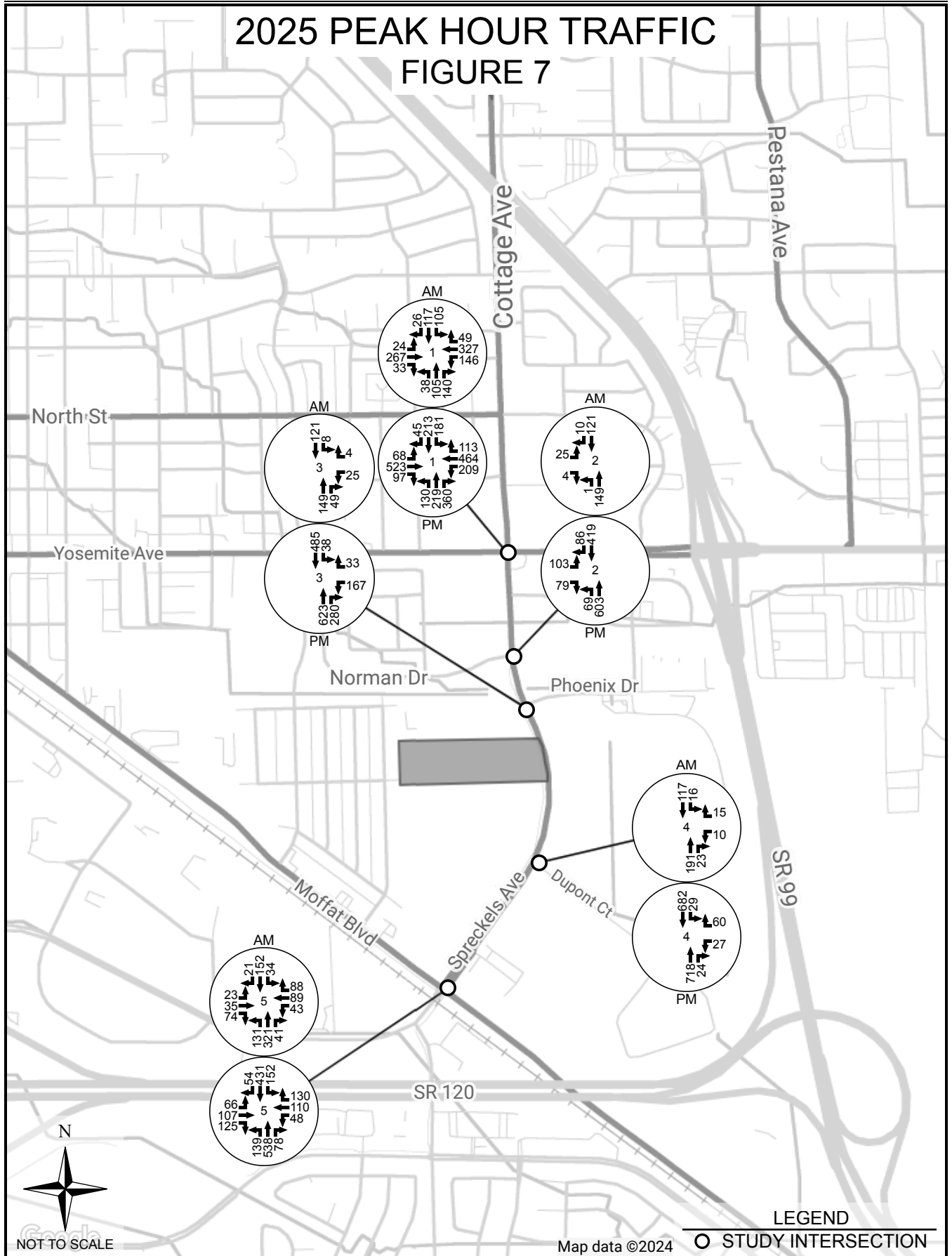


2024+PROJECT PEAK HOUR TRAFFIC

FIGURE 6



2025 PEAK HOUR TRAFFIC FIGURE 7



INTERSECTION ANALYSIS

A capacity analysis of the study intersections was conducted using Synchro 12 software from Trafficware. The analysis was performed for each of the following traffic scenarios.

- Existing (2024)
- Existing (2024) + Project
- Future (2025) + Near-Term Cumulative
- Future (2025) + Near-Term Cumulative + Project

Level of service (LOS) criteria for unsignalized and signalized intersections, as defined in HCM 6th edition, are presented in the tables below. The City of Manteca's Circulation Element designates LOS "D" as the minimum acceptable intersection peak hour level of service.

LEVEL OF SERVICE CRITERIA UNSIGNALIZED INTERSECTION

Level of Service	Average Control Delay (sec/veh)	Expected Delay to Minor Street Traffic
A	≤ 10	Little or no delay
B	$> 10 \text{ and } \leq 15$	Short delays
C	$> 15 \text{ and } \leq 25$	Average delays
D	$> 25 \text{ and } \leq 35$	Long delays
E	$> 35 \text{ and } \leq 50$	Very long delays
F	> 50	Extreme delays

LEVEL OF SERVICE CRITERIA SIGNALIZED INTERSECTIONS

Level of Service	Average Control Delay (sec/veh)	Volume-to-Capacity Ratio
A	≤ 10	< 0.60
B	$> 10 \text{ and } \leq 20$	0.61 - 0.70
C	$> 20 \text{ and } \leq 35$	0.71 - 0.80
D	$> 35 \text{ and } \leq 55$	0.81 - 0.90
E	$> 55 \text{ and } \leq 80$	0.91 - 1.00
F	> 80	> 1.00

Peak hour level of service for the study intersections is presented in Tables 3a and 3b. Intersection delay in seconds per vehicle is shown within parentheses for intersections operating below LOS “D.”

Table 3a
Intersection Level of Service
Weekday PM Peak Hour

#	Intersection	Control Type	2024	2024+ Project	2025+Near-Term Cumulative	2025+Near-Term Cumulative+ Project	2025+Near-Term Cumulative+ Project w/Improvements
1	Yosemite Ave & Spreckels Ave	Signal	C	C	C	C	-
2	Norman Dr & Spreckels Ave	EB Stop	C	C	C	C	-
3	Phoenix Dr & Spreckels Ave	WB Stop	F (96.1)	F (96.5)	F (98.2)	F (98.6)	-
		Signal	-	-	-	-	C
4	Dupont Ct & Spreckels Ave	WB Stop	C	C	C	C	-
5	Moffatt Blvd & Spreckels Ave	Signal	C	C	D	D	-
6	Project Driveway & Spreckels Ave	EB Stop	A	A	A	A	-

Table 3b
Intersection Level of Service
Weekday AM Peak Hour

#	Intersection	Control Type	2024	2024+ Project	2025+Near-Term Cumulative	2025+Near-Term Cumulative+ Project	2025+Near-Term Cumulative+ Project w/Improvements
1	Yosemite Ave & Spreckels Ave	Signal	B	B	C	C	-
2	Norman Dr & Spreckels Ave	EB Stop	B	B	B	B	-
3	Phoenix Dr & Spreckels Ave	WB Stop	B	B	B	B	-
		Signal	-	-	-	-	A
4	Dupont Ct & Spreckels Ave	WB Stop	B	B	B	B	-
5	Moffatt Blvd & Spreckels Ave	Signal	C	C	D	D	-
6	Project Driveway & Spreckels Ave	EB Stop	A	A	A	A	-

TRAFFIC SIGNAL WARRANT ANALYSIS

Eight hour, four hour, and peak hour traffic signal warrants (Signal Warrants 1, 2, & 3) were evaluated for each of the unsignalized intersections within the study based on the California Manual on Uniform Traffic Control Devices (CA MUTCD) as shown in Tables 4a through 4c. AM and PM peak hour volume data and daily traffic volume data were collected for all approaches at the analyzed intersections. Traffic counts are included in the appendix.

Table 4a
Warrants 1 Analysis
Eight-Hour Vehicle Volume

#	Intersection	2024	2024+ Project	2025+Near- Term Cumulative	2025+Near- Term Cumulative+ Project
2	Norman Dr & Spreckels Ave	NO	NO	NO	NO
3	Phoenix Dr & Spreckels Ave	YES	YES	YES	YES
4	Dupont Ct & Spreckels Ave	NO	NO	NO	NO

Table 4b
Warrants 2 Analysis
Four-Hour Vehicle Volume

#	Intersection	2024	2024+ Project	2025+Near- Term Cumulative	2025+Near- Term Cumulative+ Project
2	Norman Dr & Spreckels Ave	NO	NO	NO	NO
3	Phoenix Dr & Spreckels Ave	YES	YES	YES	YES
4	Dupont Ct & Spreckels Ave	NO	NO	NO	NO

Table 4c
Warrants 3 Analysis
Peak-Hour Vehicle Volume

#	Intersection	2024	2024+ Project	2025+Near- Term Cumulative	2025+Near- Term Cumulative+ Project
2	Norman Dr & Spreckels Ave	NO	NO	NO	NO
3	Phoenix Dr & Spreckels Ave	NO	NO	NO	NO
4	Dupont Ct & Spreckels Ave	NO	NO	NO	NO

In addition, an analysis of Signal Warrant 7, Crash Experience was performed for each of the unsignalized intersections within the study based on the California Manual on Uniform Traffic Control Devices (CA MUTCD). This signal warrant contains several criteria, one of which is accident history that shows five or more reported accidents occurring within a 12-month period. A review of the accident history, based on that criteria, found that no accidents had occurred within the 12-month period, therefore the signal warrant criteria was not met, and no further analysis is required. The intersection signal warrant analysis is included in the appendix.

It is important to note that a signal warrant defines the minimum condition under which signalization of an intersection might be warranted. Meeting this threshold does not suggest traffic signals are required, but rather, that other traffic factors and conditions be considered in order to determine whether signals are truly justified as noted in the Summary and Conclusions.

It is also noted that signal warrants do not necessarily correlate with the level of service. An intersection may satisfy a signal warrant condition and operate at or above an acceptable level of service or operate below an acceptable level of service and not meet signal warrant criteria.

ROADWAY ANALYSIS

A capacity analysis of the study roadways was conducted using Table 4 in the State of Florida Department of Transportation *Quality/Level of Service Handbook* dated June 2020 (see Appendix). (It is noted that the use of the Florida handbook has become a universal standard for roadway analysis throughout California, as Caltrans has not adopted a handbook for use at this time. In addition, State of Florida Department of Transportation has been instrumental in setting the standard for LOS analysis contained in

the Highway Capacity Manual, therefore, they are considered to be a reliable source for information that is routinely used in traffic analysis.) The City of Manteca Circulation Element states that the peak hour level of service for roadways shall be no lower than LOS “D” for urban areas. The analysis was performed for the following PM and AM traffic scenarios as shown in Tables 5a and 5b, respectively:

- Existing (2024)
- Existing (2024) + Project
- Future (2025) + Near-Term Cumulative
- Future (2025) + Near-Term Cumulative + Project

Table 5a
PM Roadway Level of Service

Street	2024		2024+Project Two-Way LOS		2025+Near Term Cum Two-Way LOS		2025+Near Term Cum+Project Two-Way LOS	
	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS
Spreckels Ave: Yosemite Ave to Norman Dr	1253	C	1276	C	1290	C	1314	C
Spreckels Ave: Nomran Dr to Phoenix Dr	1113	C	1136	C	1147	C	1170	C
Spreckels Ave: Phoenix Dr to Dupont Ct	1355	C	1378	C	1395	C	1419	C
Spreckels Ave: Dupont Ct to Moffatt Blvd	1372	C	1395	C	1414	C	1437	C

Table 5b
AM Roadway Level of Service

Street	2024		2024+Project Two-Way LOS		2025+Near Term Cum Two-Way LOS		2025+Near Term Cum+Project Two-Way LOS	
	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS
Spreckels Ave: Yosemite Ave to Norman Dr	535	C	554	C	551	C	570	C
Spreckels Ave: Nomran Dr to Phoenix Dr	469	C	518	C	484	C	532	C
Spreckels Ave: Phoenix Dr to Dupont Ct	582	C	601	C	600	C	619	C
Spreckels Ave: Dupont Ct to Moffatt Blvd	473	C	492	C	487	C	506	C

BICYCLE AND PEDESTRIAN FACILITIES

The City of Manteca General Plan, Figure C-2: Active Transportation Plan – Pedestrian Network and Figure C-3: Active Transportation Plan – Bicycle Network, show an existing Class 1 Bike path and Class 1 – Multi-Use Path along the west side of the Spreckels Avenue corridor between Yosemite Avenue and Moffat Boulevard. These facilities provide bicycle and pedestrian access throughout the area and will continue with this project. Observations were made during the peak hour regarding bicycle and pedestrian trips along this corridor. The number of trips at any given crossing varied from zero at certain locations to a maximum of approximately seventeen bicycles and sixteen pedestrians.

VMT ANALYSIS

An analysis of project VMT (vehicle miles traveled) was conducted in accordance with the *City of Manteca SB 743 Implementation Policy*, dated 2022. The City's policy provides project screening criteria to streamline the VMT analysis for projects that meet certain criteria, referred to as Project Screening. Project Screening can be met if the project meets at least one of the five screening criteria - (1) Small Projects, (2) Provision of Affordable Housing, (3) Local-Serving Retail, (4) Project located in a High-Quality Transit Area, and (5) Project located in low VMT area. The Small Projects screening criteria, where projects are consistent with the City's General Plan, allow for a project's VMT analysis to be screened if the project would generate fewer than 1,000 average daily trips (ADT), and projects not consistent with the City's General Plan, can be screened if the project would generate fewer than 500 ADT. This project meets the Small Projects criteria since it is consistent with the approved General Plan and zoning land use designation, and it generates fewer than 1,000 daily trips (ADT).

Warehouse Project

The project has been analyzed using a mix High-Cube Cold Storage and General Warehouse to generate the potential maximum trip generation anticipated by this project. In doing so, the maximum daily trips potentially generated by this project, as shown in Table 1, are 614. In accordance with the City of Manteca's SB 743 Implementation Policy, as stated above, this project meets the Small Projects criteria, which means it can be screened out from further VMT analysis, since it is consistent with the City's General Plan, and it generates fewer than the corresponding significance threshold of 1,000 daily trips (ADT). Therefore, VMT generated by this project is presumed to create a less than significant impact and no further VMT analysis is required.

SUMMARY AND CONCLUSIONS

The purpose of this study was to evaluate the potential traffic impacts of a proposed warehouse located at 407 Spreckels Avenue, south of Yosemite Avenue in Manteca, California.

Level of Service

In 2024 and 2025 Near-Term Cumulative conditions, with the exception of the Spreckels Avenue and Phoenix Drive intersection, all other study intersections are anticipated to operate at or above the acceptable Level of Service D, prior to and with the addition of project traffic and do not require mitigation. However, Spreckels Avenue and Phoenix Drive is anticipated to operate at LOS F during the PM peak hour prior to and with the addition of project traffic, therefore installation of a traffic signal will be required.

Traffic Signal Warrants

The intersections of Spreckels Avenue and DuPont Court and Spreckels Avenue and Norman Drive did not meet signal warrant criteria in 2024 and 2025 Near-Term Cumulative conditions, with and without the project. However, the intersection of Spreckels Avenue and Phoenix Drive met signal warrant criteria in 2024 and 2025 Near-Term Cumulative conditions, with and without the project for Signal Warrants 1 and 2, further supporting installation of a traffic signal as previously noted. In addition, the unsignalized intersections of Norman Drive, Phoenix Drive, and DuPont Court along Spreckels Avenue did not meet the accident based signal warrant, therefore no further analysis is required.

Roadway Segments

In 2024 and 2025 Near-Term Cumulative conditions all study roadway segments are anticipated to operate at or above the acceptable Level of Service D, prior to and with the addition of project traffic, therefore no additional mitigation is required.

VMT

Provisions in the City of Manteca's SB 743 Implementation Policy allows for this project's VMT to screen out from further analysis since it meets the Small Projects criteria, as it is consistent with the City's General Plan, and it generates 614 daily trips, which are fewer than the corresponding significance threshold of 1,000 daily trips (ADT). Therefore, VMT generated by this project is presumed to create a less than significant impact and no further VMT analysis is required.

REFERENCES

1. California Manual on Uniform Traffic Control Devices for Streets and Highways, 2014 Edition, State of California Department of Transportation (Caltrans)
2. City of Manteca General Plan, 2023.
3. City of Manteca SB 743 Implementation Policy, 2022
4. Guide for the Preparation of Traffic Impact Studies, December 2002, State of California Department of Transportation (Caltrans)
5. Highway Capacity Manual 2010, Transportation Research Board
6. Trip Generation Manual, 11th Edition, Institute of Transportation Engineers (ITE)

APPENDIX

City of Manteca
N/S: Cottage Avenue/Spreckels Avenue
E/W: E Yosemite Avenue
Weather: Clear

File Name : 01_MTC_Spr_Yos AM
Site Code : 99924427
Start Date : 5/7/2023
Page No : 1

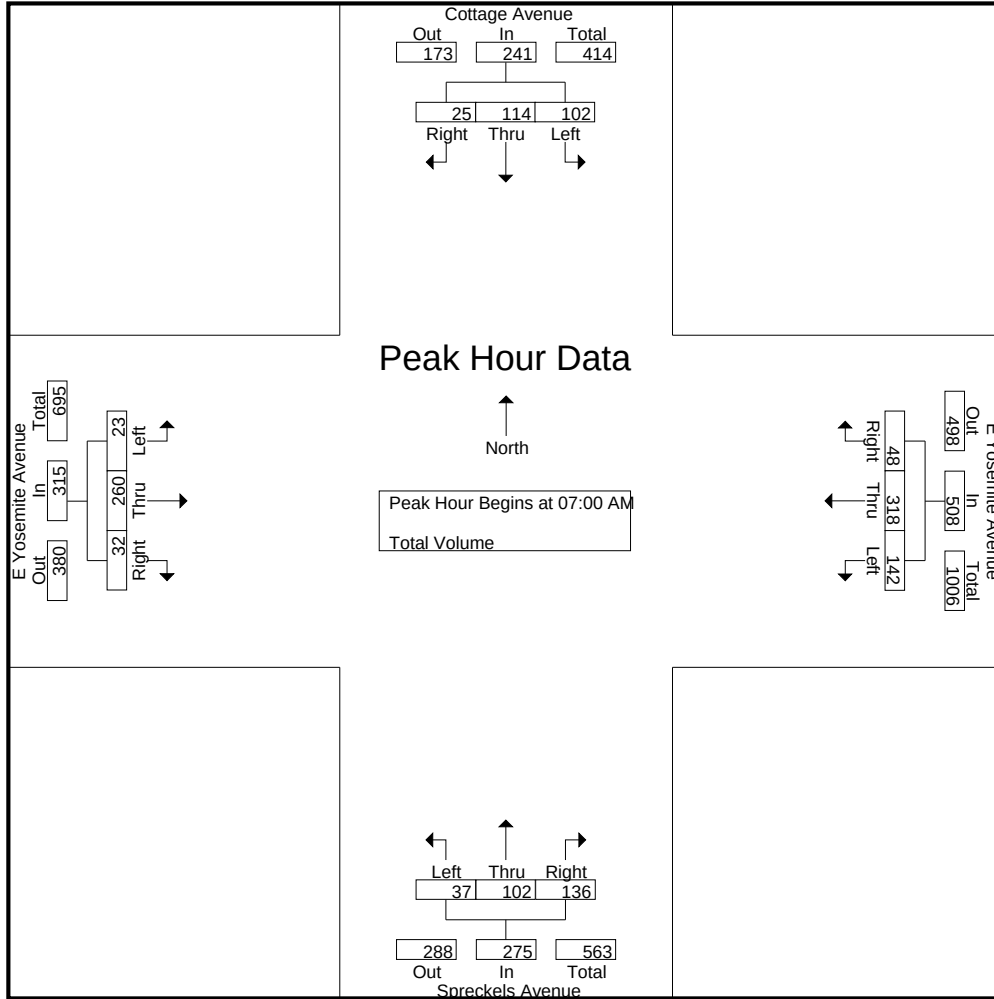
Groups Printed- Total Volume

	Cottage Avenue Southbound				E Yosemite Avenue Westbound				Spreckels Avenue Northbound				E Yosemite Avenue 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
06:00 AM	18	15	2	35	20	22	5	47	2	8	18	28	1	29	0	30	140
06:15 AM	19	10	2	31	16	46	3	65	7	9	21	37	2	26	6	34	167
06:30 AM	21	15	4	40	32	45	8	85	1	15	29	45	6	31	2	39	209
06:45 AM	17	11	1	29	35	50	7	92	5	16	26	47	3	50	9	62	230
Total	75	51	9	135	103	163	23	289	15	48	94	157	12	136	17	165	746
07:00 AM	20	20	7	47	25	65	10	100	4	12	34	50	6	58	4	68	265
07:15 AM	25	18	6	49	30	73	10	113	4	30	29	63	4	57	5	66	291
07:30 AM	28	35	5	68	30	83	15	128	11	24	45	80	9	62	5	76	352
07:45 AM	29	41	7	77	57	97	13	167	18	36	28	82	4	83	18	105	431
Total	102	114	25	241	142	318	48	508	37	102	136	275	23	260	32	315	1339
Grand Total	177	165	34	376	245	481	71	797	52	150	230	432	35	396	49	480	2085
Apprch %	47.1	43.9	9		30.7	60.4	8.9		12	34.7	53.2		7.3	82.5	10.2		
Total %	8.5	7.9	1.6	18	11.8	23.1	3.4	38.2	2.5	7.2	11	20.7	1.7	19	2.4	23	

	Cottage Avenue Southbound				E Yosemite Avenue Westbound				Spreckels Avenue Northbound				E Yosemite Avenue 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
Peak Hour Analysis From 06:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	20	20	7	47	25	65	10	100	4	12	34	50	6	58	4	68	265
07:15 AM	25	18	6	49	30	73	10	113	4	30	29	63	4	57	5	66	291
07:30 AM	28	35	5	68	30	83	15	128	11	24	45	80	9	62	5	76	352
07:45 AM	29	41	7	77	57	97	13	167	18	36	28	82	4	83	18	105	431
Total Volume	102	114	25	241	142	318	48	508	37	102	136	275	23	260	32	315	1339
% App. Total	42.3	47.3	10.4		28	62.6	9.4		13.5	37.1	49.5		7.3	82.5	10.2		
PHF	.879	.695	.893	.782	.623	.820	.800	.760	.514	.708	.756	.838	.639	.783	.444	.750	.777

City of Manteca
N/S: Cottage Avenue/Spreckels Avenue
E/W: E Yosemite Avenue
Weather: Clear

File Name : 01_MTC_Spr_Yos AM
Site Code : 99924427
Start Date : 5/7/2023
Page No : 2



Peak Hour Analysis From 06:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	20	20	7	47	25	65	10	100	4	12	34	50	6	58	4	68
+15 mins.	25	18	6	49	30	73	10	113	4	30	29	63	4	57	5	66
+30 mins.	28	35	5	68	30	83	15	128	11	24	45	80	9	62	5	76
+45 mins.	29	41	7	77	57	97	13	167	18	36	28	82	4	83	18	105
Total Volume	102	114	25	241	142	318	48	508	37	102	136	275	23	260	32	315
% App. Total	42.3	47.3	10.4		28	62.6	9.4		13.5	37.1	49.5		7.3	82.5	10.2	
PHF	.879	.695	.893	.782	.623	.820	.800	.760	.514	.708	.756	.838	.639	.783	.444	.750

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

City of Manteca
N/S: Cottage Avenue/Spreckels Avenue
E/W: E Yosemite Avenue
Weather: Clear

File Name : 01_MTC_Spr_Yos PM
Site Code : 99924427
Start Date : 5/7/2023
Page No : 1

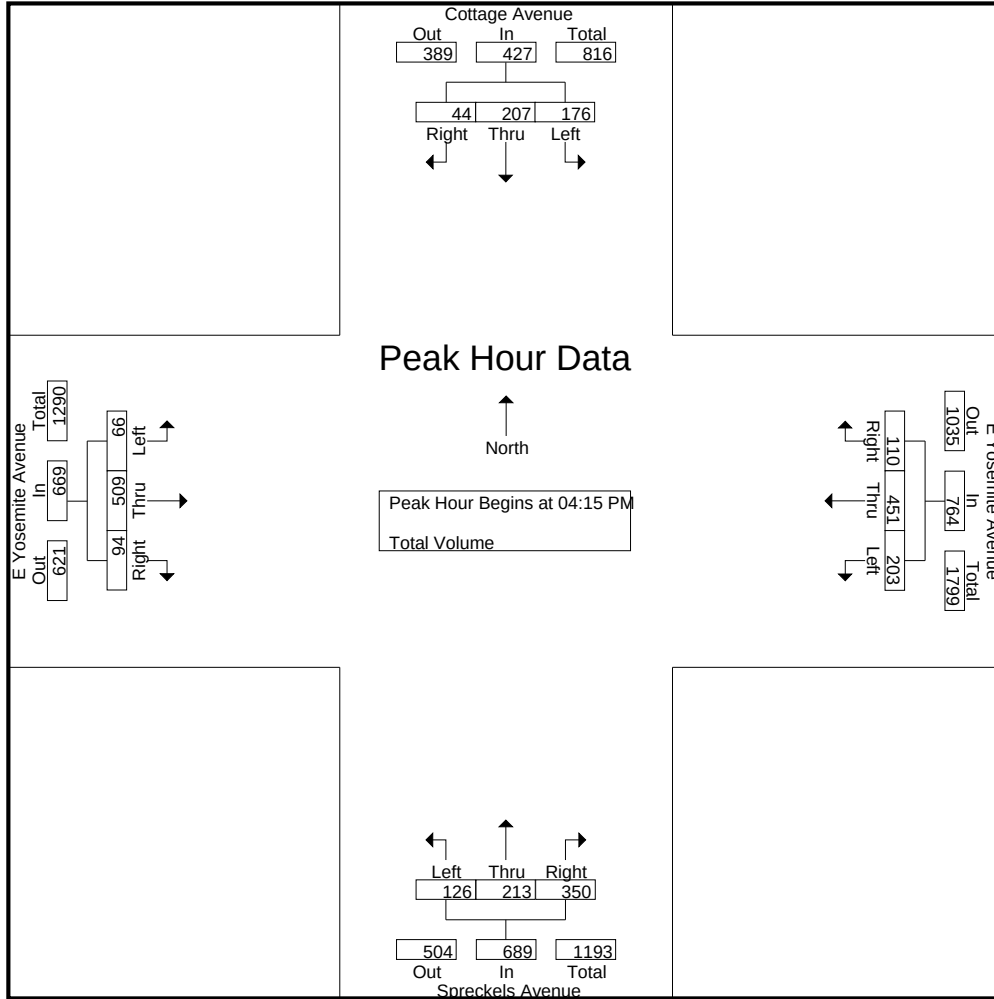
Groups Printed- Total Volume

	Cottage Avenue Southbound				E Yosemite Avenue Westbound				Spreckels Avenue Northbound				E Yosemite Avenue 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	37	55	8	100	54	98	24	176	25	79	65	169	23	135	21	179	624
04:15 PM	42	46	8	96	47	113	24	184	36	55	77	168	18	126	33	177	625
04:30 PM	42	40	22	104	40	117	25	182	37	50	111	198	14	126	19	159	643
04:45 PM	45	56	7	108	50	111	33	194	22	57	72	151	14	134	20	168	621
Total	166	197	45	408	191	439	106	736	120	241	325	686	69	521	93	683	2513
05:00 PM	47	65	7	119	66	110	28	204	31	51	90	172	20	123	22	165	660
05:15 PM	32	50	15	97	44	101	26	171	26	52	72	150	23	131	18	172	590
05:30 PM	34	46	13	93	49	116	18	183	24	52	77	153	12	133	27	172	601
05:45 PM	32	61	19	112	42	91	25	158	17	51	53	121	12	101	21	134	525
Total	145	222	54	421	201	418	97	716	98	206	292	596	67	488	88	643	2376
Grand Total	311	419	99	829	392	857	203	1452	218	447	617	1282	136	1009	181	1326	4889
Apprch %	37.5	50.5	11.9		27	59	14		17	34.9	48.1		10.3	76.1	13.7		
Total %	6.4	8.6	2	17	8	17.5	4.2	29.7	4.5	9.1	12.6	26.2	2.8	20.6	3.7	27.1	

	Cottage Avenue Southbound				E Yosemite Avenue Westbound				Spreckels Avenue Northbound				E Yosemite Avenue 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
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	42	46	8	96	47	113	24	184	36	55	77	168	18	126	33	177	625
04:30 PM	42	40	22	104	40	117	25	182	37	50	111	198	14	126	19	159	643
04:45 PM	45	56	7	108	50	111	33	194	22	57	72	151	14	134	20	168	621
05:00 PM	47	65	7	119	66	110	28	204	31	51	90	172	20	123	22	165	660
Total Volume	176	207	44	427	203	451	110	764	126	213	350	689	66	509	94	669	2549
% App. Total	41.2	48.5	10.3		26.6	59	14.4		18.3	30.9	50.8		9.9	76.1	14.1		
PHF	.936	.796	.500	.897	.769	.964	.833	.936	.851	.934	.788	.870	.825	.950	.712	.945	.966

City of Manteca
N/S: Cottage Avenue/Spreckels Avenue
E/W: E Yosemite Avenue
Weather: Clear

File Name : 01_MTC_Spr_Yos PM
Site Code : 99924427
Start Date : 5/7/2023
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:

	04:30 PM				04:15 PM				04:15 PM				04:00 PM			
+0 mins.	42	40	22	104	47	113	24	184	36	55	77	168	23	135	21	179
+15 mins.	45	56	7	108	40	117	25	182	37	50	111	198	18	126	33	177
+30 mins.	47	65	7	119	50	111	33	194	22	57	72	151	14	126	19	159
+45 mins.	32	50	15	97	66	110	28	204	31	51	90	172	14	134	20	168
Total Volume	166	211	51	428	203	451	110	764	126	213	350	689	69	521	93	683
% App. Total	38.8	49.3	11.9		26.6	59	14.4		18.3	30.9	50.8		10.1	76.3	13.6	
PHF	.883	.812	.580	.899	.769	.964	.833	.936	.851	.934	.788	.870	.750	.965	.705	.954

Location: Manteca
 N/S: Cottage Ave/Spreckels Ave
 E/W: E Yosemite Avenue



Date: 5/7/2024
 Day: Tuesday

PEDESTRIANS

	North Leg Cottage Avenue	East Leg E Yosemite Avenue	South Leg Spreckels Avenue	West Leg E Yosemite Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	1	1
6:15 AM	0	1	0	0	1
6:30 AM	0	0	0	0	0
6:45 AM	0	1	0	1	2
7:00 AM	0	3	0	0	3
7:15 AM	0	1	0	0	1
7:30 AM	0	1	0	1	2
7:45 AM	0	0	1	1	2
TOTAL VOLUMES:	0	7	1	4	12

	North Leg Cottage Avenue	East Leg E Yosemite Avenue	South Leg Spreckels Avenue	West Leg E Yosemite Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	2	1	2	0	5
4:15 PM	3	1	0	0	4
4:30 PM	2	0	1	0	3
4:45 PM	3	2	1	1	7
5:00 PM	0	1	0	0	1
5:15 PM	0	1	0	1	2
5:30 PM	1	0	1	1	3
5:45 PM	0	1	0	0	1
TOTAL VOLUMES:	11	7	5	3	26

Location: Manteca
N/S: Cottage Ave/Spreckels Ave
E/W: E Yosemite Avenue



Date: 5/7/2024
Day: Tuesday

BICYCLES

		Southbound Cottage Avenue			Westbound E Yosemite Avenue			Northbound Spreckels Avenue			Eastbound E Yosemite Avenue			
		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
	6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:		0	0	0	0	1	0	0	0	0	0	1	0	2

		Southbound Cottage Avenue			Westbound E Yosemite Avenue			Northbound Spreckels Avenue			Eastbound E Yosemite Avenue			
		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
	4:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:15 PM	0	1	0	0	0	2	0	0	0	0	0	0	3
	4:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
	4:45 PM	0	1	0	0	0	0	0	7	0	0	0	0	8
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:		0	2	0	1	1	2	0	8	0	0	1	0	15

City of Manteca
N/S: Spreckels Avenue
E/W: Norman Drive
Weather: Clear

File Name : 01_MTC_Spre_Nor 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 1

Groups Printed- Total Volume

	Spreckels Avenue Southbound			Spreckels Avenue Northbound			Norman Drive Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
12:00 AM	7	1	8	1	17	18	1	0	1	27
12:15 AM	6	2	8	0	11	11	1	0	1	20
12:30 AM	7	1	8	0	14	14	0	0	0	22
12:45 AM	13	0	13	1	15	16	0	0	0	29
Total	33	4	37	2	57	59	2	0	2	98
01:00 AM	11	0	11	0	6	6	0	0	0	17
01:15 AM	12	3	15	2	9	11	1	0	1	27
01:30 AM	3	1	4	0	5	5	1	0	1	10
01:45 AM	7	1	8	1	4	5	2	0	2	15
Total	33	5	38	3	24	27	4	0	4	69
02:00 AM	2	0	2	0	8	8	0	0	0	10
02:15 AM	4	1	5	0	20	20	0	0	0	25
02:30 AM	5	1	6	0	44	44	1	0	1	51
02:45 AM	5	0	5	0	8	8	0	1	1	14
Total	16	2	18	0	80	80	1	1	2	100
03:00 AM	2	0	2	0	2	2	0	0	0	4
03:15 AM	1	1	2	0	1	1	0	1	1	4
03:30 AM	6	0	6	0	2	2	0	0	0	8
03:45 AM	3	0	3	1	6	7	0	0	0	10
Total	12	1	13	1	11	12	0	1	1	26
04:00 AM	6	1	7	1	8	9	1	0	1	17
04:15 AM	14	2	16	1	9	10	2	1	3	29
04:30 AM	26	0	26	0	3	3	4	1	5	34
04:45 AM	57	0	57	0	8	8	1	0	1	66
Total	103	3	106	2	28	30	8	2	10	146
05:00 AM	14	1	15	1	11	12	1	1	2	29
05:15 AM	8	0	8	0	6	6	1	1	2	16
05:30 AM	10	0	10	0	20	20	0	0	0	30
05:45 AM	21	2	23	0	12	12	2	0	2	37
Total	53	3	56	1	49	50	4	2	6	112
06:00 AM	19	0	19	1	12	13	2	2	4	36
06:15 AM	25	0	25	1	12	13	4	1	5	43
06:30 AM	51	3	54	0	28	28	1	3	4	86
06:45 AM	78	0	78	1	30	31	6	3	9	118
Total	173	3	176	3	82	85	13	9	22	283
07:00 AM	23	6	29	4	28	32	4	0	4	65
07:15 AM	26	4	30	3	32	35	4	3	7	72
07:30 AM	34	4	38	2	39	41	4	4	8	87
07:45 AM	39	10	49	2	38	40	4	1	5	94
Total	122	24	146	11	137	148	16	8	24	318
08:00 AM	35	12	47	5	48	53	1	3	4	104
08:15 AM	39	10	49	12	57	69	5	3	8	126
08:30 AM	74	12	86	10	65	75	8	8	16	177
08:45 AM	68	34	102	25	103	128	14	11	25	255
Total	216	68	284	52	273	325	28	25	53	662

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

City of Manteca
N/S: Spreckels Avenue
E/W: Norman Drive
Weather: Clear

File Name : 01_MTC_Spre_Nor 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 2

Groups Printed- Total Volume

	Spreckels Avenue Southbound			Spreckels Avenue Northbound			Norman Drive Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
09:00 AM	54	30	84	26	103	129	18	13	31	244
09:15 AM	56	23	79	24	76	100	14	8	22	201
09:30 AM	52	23	75	11	78	89	22	11	33	197
09:45 AM	66	27	93	14	64	78	23	8	31	202
Total	228	103	331	75	321	396	77	40	117	844
10:00 AM	74	28	102	11	71	82	14	14	28	212
10:15 AM	72	23	95	19	87	106	14	14	28	229
10:30 AM	58	15	73	16	90	106	27	8	35	214
10:45 AM	82	29	111	27	81	108	26	15	41	260
Total	286	95	381	73	329	402	81	51	132	915
11:00 AM	58	18	76	10	75	85	21	7	28	189
11:15 AM	73	22	95	16	93	109	32	12	44	248
11:30 AM	59	23	82	11	98	109	18	10	28	219
11:45 AM	87	42	129	17	91	108	28	22	50	287
Total	277	105	382	54	357	411	99	51	150	943
12:00 PM	70	26	96	16	103	119	25	15	40	255
12:15 PM	83	19	102	19	115	134	23	16	39	275
12:30 PM	78	10	88	12	94	106	31	22	53	247
12:45 PM	92	20	112	7	102	109	23	18	41	262
Total	323	75	398	54	414	468	102	71	173	1039
01:00 PM	88	22	110	13	110	123	36	18	54	287
01:15 PM	88	14	102	20	117	137	27	12	39	278
01:30 PM	80	16	96	19	110	129	14	13	27	252
01:45 PM	102	20	122	16	103	119	20	11	31	272
Total	358	72	430	68	440	508	97	54	151	1089
02:00 PM	77	23	100	14	92	106	27	10	37	243
02:15 PM	74	27	101	20	104	124	16	16	32	257
02:30 PM	64	15	79	16	104	120	15	11	26	225
02:45 PM	83	32	115	12	89	101	19	18	37	253
Total	298	97	395	62	389	451	77	55	132	978
03:00 PM	93	20	113	17	99	116	24	13	37	266
03:15 PM	89	18	107	16	140	156	30	30	60	323
03:30 PM	78	18	96	19	209	228	24	14	38	362
03:45 PM	112	24	136	14	119	133	23	21	44	313
Total	372	80	452	66	567	633	101	78	179	1264
04:00 PM	129	24	153	18	119	137	23	12	35	325
04:15 PM	99	19	118	16	101	117	20	20	40	275
04:30 PM	100	15	115	12	113	125	23	14	37	277
04:45 PM	102	14	116	12	132	144	14	20	34	294
Total	430	72	502	58	465	523	80	66	146	1171
05:00 PM	110	8	118	15	154	169	18	16	34	321
05:15 PM	110	17	127	17	123	140	29	18	47	314
05:30 PM	88	11	99	11	181	192	20	18	38	329
05:45 PM	132	8	140	10	135	145	27	14	41	326
Total	440	44	484	53	593	646	94	66	160	1290
06:00 PM	94	11	105	10	160	170	28	22	50	325
06:15 PM	85	16	101	5	130	135	16	7	23	259

City of Manteca
N/S: Spreckels Avenue
E/W: Norman Drive
Weather: Clear

File Name : 01_MTC_Spre_Nor 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 3

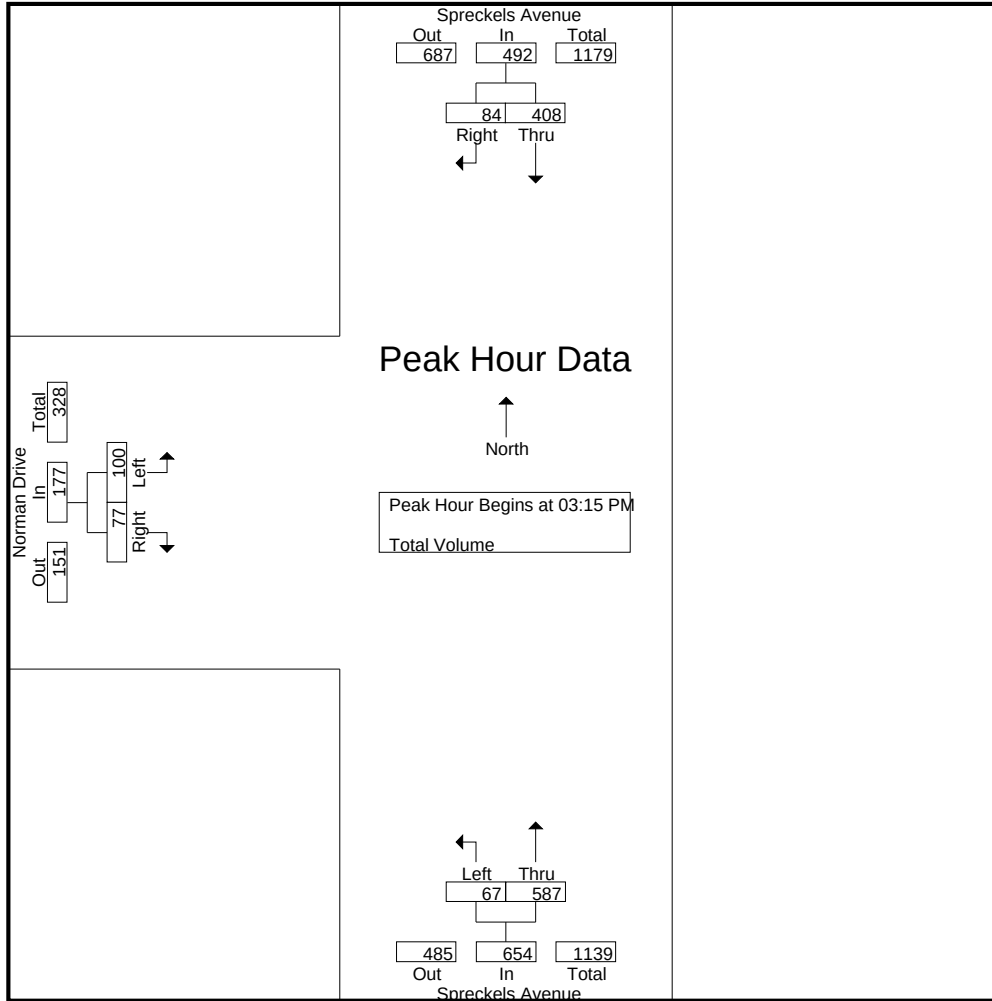
Groups Printed- Total Volume

	Spreckels Avenue Southbound			Spreckels Avenue Northbound			Norman Drive Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
06:30 PM	101	17	118	6	153	159	11	9	20	297
06:45 PM	119	6	125	9	122	131	14	13	27	283
Total	399	50	449	30	565	595	69	51	120	1164
07:00 PM	88	1	89	10	145	155	12	6	18	262
07:15 PM	91	11	102	13	115	128	11	13	24	254
07:30 PM	76	4	80	7	110	117	9	9	18	215
07:45 PM	89	11	100	4	84	88	5	18	23	211
Total	344	27	371	34	454	488	37	46	83	942
08:00 PM	61	7	68	9	85	94	10	8	18	180
08:15 PM	73	6	79	10	67	77	6	5	11	167
08:30 PM	61	1	62	8	69	77	4	4	8	147
08:45 PM	57	7	64	5	56	61	7	2	9	134
Total	252	21	273	32	277	309	27	19	46	628
09:00 PM	56	9	65	5	74	79	3	4	7	151
09:15 PM	53	6	59	6	60	66	7	3	10	135
09:30 PM	46	3	49	7	69	76	4	3	7	132
09:45 PM	47	6	53	2	45	47	7	5	12	112
Total	202	24	226	20	248	268	21	15	36	530
10:00 PM	37	11	48	6	58	64	8	3	11	123
10:15 PM	54	9	63	8	53	61	8	3	11	135
10:30 PM	32	11	43	4	43	47	9	3	12	102
10:45 PM	35	9	44	1	34	35	13	0	13	92
Total	158	40	198	19	188	207	38	9	47	452
11:00 PM	31	9	40	1	25	26	16	3	19	85
11:15 PM	23	5	28	1	24	25	3	4	7	60
11:30 PM	20	9	29	4	28	32	3	2	5	66
11:45 PM	17	3	20	1	14	15	4	2	6	41
Total	91	26	117	7	91	98	26	11	37	252
Grand Total	5219	1044	6263	780	6439	7219	1102	731	1833	15315
Apprch %	83.3	16.7		10.8	89.2		60.1	39.9		
Total %	34.1	6.8	40.9	5.1	42	47.1	7.2	4.8	12	

	Spreckels Avenue Southbound			Spreckels Avenue Northbound			Norman Drive Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 AM to 11:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 03:15 PM										
03:15 PM	89	18	107	16	140	156	30	30	60	323
03:30 PM	78	18	96	19	209	228	24	14	38	362
03:45 PM	112	24	136	14	119	133	23	21	44	313
04:00 PM	129	24	153	18	119	137	23	12	35	325
Total Volume	408	84	492	67	587	654	100	77	177	1323
% App. Total	82.9	17.1		10.2	89.8		56.5	43.5		
PHF	.791	.875	.804	.882	.702	.717	.833	.642	.738	.914

City of Manteca
N/S: Spreckels Avenue
E/W: Norman Drive
Weather: Clear

File Name : 01_MTC_Spre_Nor 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 4



Peak Hour Analysis From 12:00 AM to 11:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	03:45 PM			03:15 PM			12:15 PM		
+0 mins.	112	24	136	16	140	156	23	16	39
+15 mins.	129	24	153	19	209	228	31	22	53
+30 mins.	99	19	118	14	119	133	23	18	41
+45 mins.	100	15	115	18	119	137	36	18	54
Total Volume	440	82	522	67	587	654	113	74	187
% App. Total	84.3	15.7		10.2	89.8		60.4	39.6	
PHF	.853	.854	.853	.882	.702	.717	.785	.841	.866

Location: Manteca
 N/S: Spreckels Avenue
 E/W: Norman Drive



Date: 11/6/2024
 Day Wednesday

PEDESTRIANS

Time	North Leg Spreckels Avenue	East Leg Norman Drive	South Leg Spreckels Avenue	West Leg Norman Drive	TOTAL
12:00 AM	0	0	0	0	0
12:15 AM	0	0	0	0	0
12:30 AM	0	0	1	1	2
12:45 AM	0	0	0	2	2
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	1	1
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	1	1
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	1	0	0	0	1
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	1	0	0	1	2
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	1	1
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	1	0	0	1	2
8:15 AM	0	0	0	3	3
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	2	2
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
10:00 AM	0	0	0	2	2
10:15 AM	0	0	0	1	1
10:30 AM	0	0	0	2	2
10:45 AM	1	0	0	1	2
11:00 AM	0	0	0	0	0
11:15 AM	0	0	0	2	2
11:30 AM	0	0	0	1	1
11:45 AM	1	0	0	1	2

Location: Manteca
 N/S: Spreckels Avenue
 E/W: Norman Drive



Date: 11/6/2024
 Day Wednesday

PEDESTRIANS

Time	North Leg Spreckels Avenue	East Leg Norman Drive	South Leg Spreckels Avenue	West Leg Norman Drive	TOTAL
12:00 PM	1	0	0	0	1
12:15 PM	1	0	0	0	1
12:30 PM	6	0	0	2	8
12:45 PM	1	0	0	1	2
1:00 PM	1	0	0	0	1
1:15 PM	3	0	0	0	3
1:30 PM	2	0	0	0	2
1:45 PM	0	0	0	0	0
2:00 PM	0	0	0	0	0
2:15 PM	1	0	0	0	1
2:30 PM	2	0	0	0	2
2:45 PM	0	0	0	1	1
3:00 PM	1	0	0	1	2
3:15 PM	0	0	0	0	0
3:30 PM	2	0	0	0	2
3:45 PM	1	0	0	0	1
4:00 PM	3	0	0	2	5
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	1	1
4:45 PM	0	0	0	1	1
5:00 PM	0	0	0	0	0
5:15 PM	2	0	0	1	3
5:30 PM	2	0	0	3	5
5:45 PM	1	0	0	1	2
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	2	2
6:45 PM	2	0	0	0	2
7:00 PM	0	0	0	0	0
7:15 PM	0	0	0	0	0
7:30 PM	0	0	0	1	1
7:45 PM	0	0	0	0	0
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	1	1
9:30 PM	0	0	0	0	0
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	0	0	0	0	0
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	1	1
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	1	1
11:45 PM	0	0	0	0	0
TOTAL VOLUMES:	37	0	1	44	82

Location: Manteca
N/S: Spreckels Avenue
E/W: Norman Drive

Date: 11/6/2024
Day: Wednesday



BICYCLES

	Southbound Spreckels Avenue			Westbound Norman Drive			Northbound Spreckels Avenue			Eastbound Norman Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0

Location: Manteca
N/S: Spreckels Avenue
E/W: Norman Drive

Date: 11/6/2024
Day: Wednesday



BICYCLES

	Southbound Spreckels Avenue			Westbound Norman Drive			Northbound Spreckels Avenue			Eastbound Norman Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
7:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	1
9:45 PM	0	0	0	0	0	0	0	1	0	0	0	1	2
10:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	1	0	0	0	0	0	1	0	0	0	0	2
TOTAL VOLUMES:	0	4	0	0	0	0	1	6	0	1	0	3	15

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

City of Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive
Weather: Clear

File Name : 02_MTC_Spre_Ph0 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 1

Groups Printed- Total Volume

	Spreckels Avenue Southbound				Phoenix Drive Westbound				Spreckels Avenue Northbound				JM Equipement Co. Driveway 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
12:00 AM	0	9	0	9	2	0	2	4	0	11	4	15	0	0	0	0	28
12:15 AM	0	6	0	6	4	0	0	4	0	12	3	15	0	0	0	0	25
12:30 AM	0	7	0	7	5	0	0	5	0	14	2	16	0	0	0	0	28
12:45 AM	0	12	0	12	3	0	0	3	0	15	0	15	0	0	0	0	30
Total	0	34	0	34	14	0	2	16	0	52	9	61	0	0	0	0	111
01:00 AM	0	11	0	11	0	0	0	0	0	7	0	7	0	0	0	0	18
01:15 AM	0	12	0	12	0	0	1	1	0	9	2	11	0	0	0	0	24
01:30 AM	0	3	0	3	0	0	0	0	0	5	0	5	0	0	0	0	8
01:45 AM	0	7	0	7	2	0	0	2	0	6	0	6	0	0	0	0	15
Total	0	33	0	33	2	0	1	3	0	27	2	29	0	0	0	0	65
02:00 AM	0	2	0	2	2	0	0	2	0	7	1	8	0	0	0	0	12
02:15 AM	1	3	0	4	1	0	1	2	0	19	0	19	0	0	0	0	25
02:30 AM	0	5	0	5	1	0	0	1	0	44	3	47	0	0	0	0	53
02:45 AM	0	6	0	6	0	0	0	0	0	8	2	10	0	0	0	0	16
Total	1	16	0	17	4	0	1	5	0	78	6	84	0	0	0	0	106
03:00 AM	0	2	0	2	2	0	0	2	0	2	0	2	0	0	0	0	6
03:15 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
03:30 AM	0	7	0	7	0	0	0	0	0	3	1	4	0	0	0	0	11
03:45 AM	0	3	0	3	0	0	0	0	0	7	2	9	0	0	0	0	12
Total	0	13	0	13	2	0	0	2	0	13	3	16	0	0	0	0	31
04:00 AM	0	6	0	6	1	0	0	1	0	9	0	9	0	0	0	0	16
04:15 AM	1	15	0	16	0	0	0	0	0	11	2	13	0	0	0	0	29
04:30 AM	0	27	0	27	2	0	0	2	0	2	3	5	0	0	0	0	34
04:45 AM	0	58	0	58	5	0	0	5	0	7	4	11	0	0	0	0	74
Total	1	106	0	107	8	0	0	8	0	29	9	38	0	0	0	0	153
05:00 AM	0	15	0	15	3	0	1	4	0	11	2	13	0	0	0	0	32
05:15 AM	0	9	0	9	3	0	0	3	0	6	0	6	0	0	0	0	18
05:30 AM	0	10	0	10	0	0	0	0	0	20	4	24	0	0	0	0	34
05:45 AM	0	21	0	21	2	0	0	2	0	12	7	19	0	0	0	0	42
Total	0	55	0	55	8	0	1	9	0	49	13	62	0	0	0	0	126
06:00 AM	1	20	0	21	3	0	0	3	0	14	7	21	0	0	0	0	45
06:15 AM	1	25	0	26	4	0	0	4	0	13	2	15	0	0	0	0	45
06:30 AM	1	51	0	52	10	0	0	10	0	27	6	33	0	0	0	0	95
06:45 AM	1	83	0	84	9	0	0	9	0	31	5	36	0	0	0	0	129
Total	4	179	0	183	26	0	0	26	0	85	20	105	0	0	0	0	314
07:00 AM	0	25	1	26	8	0	0	8	0	32	11	43	0	0	0	0	77
07:15 AM	1	23	2	26	6	0	2	8	0	33	11	44	0	0	0	0	78
07:30 AM	4	33	1	38	6	0	2	8	0	39	10	49	0	0	0	0	95
07:45 AM	3	37	2	42	4	0	0	4	1	41	16	58	0	0	0	0	104
Total	8	118	6	132	24	0	4	28	1	145	48	194	0	0	0	0	354
08:00 AM	1	35	1	37	6	1	1	8	0	53	21	74	0	0	0	0	119
08:15 AM	7	33	1	41	11	0	3	14	1	64	26	91	0	0	1	1	147
08:30 AM	8	69	3	80	14	0	1	15	5	78	19	102	0	0	0	0	197
08:45 AM	5	71	5	81	13	2	7	22	8	116	39	163	1	0	0	1	267
Total	21	208	10	239	44	3	12	59	14	311	105	430	1	0	1	2	730

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

City of Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive
Weather: Clear

File Name : 02_MTC_Spre_Ph0 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 2

Groups Printed- Total Volume

	Spreckels Avenue Southbound				Phoenix Drive Westbound				Spreckels Avenue Northbound				JM Equipement Co. Driveway 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
09:00 AM	2	59	3	64	25	0	7	32	1	125	43	169	0	0	0	0	265
09:15 AM	7	54	1	62	31	0	12	43	1	87	33	121	1	0	1	2	228
09:30 AM	4	62	1	67	23	0	4	27	1	84	33	118	2	0	1	3	215
09:45 AM	7	70	0	77	27	0	4	31	0	70	46	116	0	0	0	0	224
Total	20	245	5	270	106	0	27	133	3	366	155	524	3	0	2	5	932
10:00 AM	10	76	2	88	22	0	8	30	0	77	30	107	0	1	1	2	227
10:15 AM	16	69	1	86	33	0	9	42	0	95	39	134	0	1	1	2	264
10:30 AM	5	62	1	68	40	0	11	51	1	94	29	124	1	0	0	1	244
10:45 AM	10	86	2	98	29	0	4	33	1	104	51	156	0	0	2	2	289
Total	41	293	6	340	124	0	32	156	2	370	149	521	1	2	4	7	1024
11:00 AM	8	57	0	65	21	0	5	26	0	79	42	121	0	0	1	1	213
11:15 AM	7	79	1	87	29	0	9	38	0	99	43	142	0	0	2	2	269
11:30 AM	5	65	0	70	30	0	10	40	1	101	39	141	0	0	0	0	251
11:45 AM	16	92	2	110	32	0	14	46	0	95	49	144	0	0	1	1	301
Total	36	293	3	332	112	0	38	150	1	374	173	548	0	0	4	4	1034
12:00 PM	9	74	2	85	37	0	12	49	1	110	51	162	0	0	2	2	298
12:15 PM	10	84	2	96	37	1	7	45	0	123	42	165	4	1	1	6	312
12:30 PM	14	86	3	103	37	1	11	49	1	92	43	136	2	0	0	2	290
12:45 PM	16	92	1	109	39	0	16	55	1	88	56	145	3	0	0	3	312
Total	49	336	8	393	150	2	46	198	3	413	192	608	9	1	3	13	1212
01:00 PM	12	91	1	104	44	0	5	49	1	111	57	169	6	1	4	11	333
01:15 PM	13	88	1	102	38	0	24	62	0	107	69	176	5	0	1	6	346
01:30 PM	10	82	3	95	45	1	23	69	0	111	51	162	0	2	2	4	330
01:45 PM	15	93	4	112	53	0	12	65	0	104	56	160	3	0	0	3	340
Total	50	354	9	413	180	1	64	245	1	433	233	667	14	3	7	24	1349
02:00 PM	10	72	6	88	43	0	10	53	1	89	40	130	3	0	2	5	276
02:15 PM	9	79	2	90	42	0	12	54	1	115	53	169	0	1	0	1	314
02:30 PM	3	72	1	76	41	0	11	52	2	105	48	155	2	0	0	2	285
02:45 PM	5	96	1	102	37	0	8	45	0	96	46	142	1	0	0	1	290
Total	27	319	10	356	163	0	41	204	4	405	187	596	6	1	2	9	1165
03:00 PM	6	98	1	105	39	0	10	49	2	104	49	155	0	0	1	1	310
03:15 PM	11	108	1	120	43	0	11	54	1	140	50	191	1	0	0	1	366
03:30 PM	6	86	3	95	32	0	12	44	1	215	66	282	1	0	2	3	424
03:45 PM	7	124	0	131	34	0	7	41	0	126	50	176	1	0	0	1	349
Total	30	416	5	451	148	0	40	188	4	585	215	804	3	0	3	6	1449
04:00 PM	11	131	0	142	53	1	15	69	1	119	40	160	2	0	2	4	375
04:15 PM	10	111	0	121	38	0	14	52	0	104	37	141	3	0	0	3	317
04:30 PM	12	103	1	116	41	0	8	49	0	114	39	153	0	1	0	1	319
04:45 PM	15	104	3	122	36	0	14	50	0	134	60	194	1	0	1	2	368
Total	48	449	4	501	168	1	51	220	1	471	176	648	6	1	3	10	1379
05:00 PM	14	111	0	125	38	0	9	47	1	156	71	228	1	0	2	3	403
05:15 PM	13	118	0	131	48	0	6	54	0	129	55	184	1	0	1	2	371
05:30 PM	3	99	0	102	38	0	10	48	1	182	92	275	0	0	1	1	426
05:45 PM	7	144	0	151	38	0	7	45	0	139	54	193	2	0	3	5	394
Total	37	472	0	509	162	0	32	194	2	606	272	880	4	0	7	11	1594
06:00 PM	8	104	0	112	44	0	8	52	0	154	68	222	5	2	5	12	398

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

City of Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive
Weather: Clear

File Name : 02_MTC_Spre_Ph0 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 3

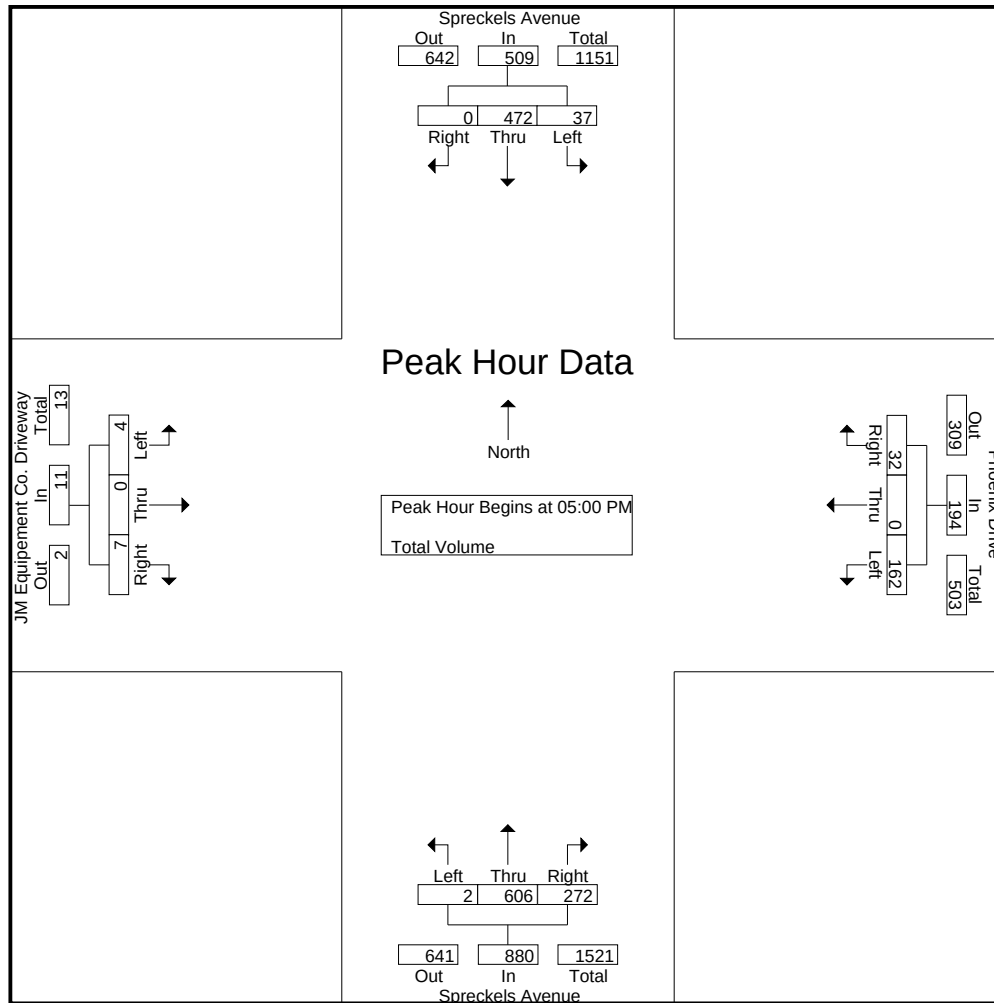
Groups Printed- Total Volume

	Spreckels Avenue Southbound				Phoenix Drive Westbound				Spreckels Avenue Northbound				JM Equipement Co. Driveway 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
06:15 PM	8	84	0	92	43	0	10	53	0	125	39	164	1	0	1	2	311
06:30 PM	8	102	0	110	54	0	10	64	0	149	56	205	0	0	0	0	379
06:45 PM	5	131	0	136	47	0	9	56	0	120	42	162	0	1	0	1	355
Total	29	421	0	450	188	0	37	225	0	548	205	753	6	3	6	15	1443
07:00 PM	4	91	0	95	38	0	4	42	0	152	56	208	0	0	0	0	345
07:15 PM	7	96	0	103	45	0	8	53	0	120	36	156	0	0	0	0	312
07:30 PM	5	79	0	84	42	0	8	50	0	108	42	150	1	0	0	1	285
07:45 PM	5	101	0	106	44	0	5	49	0	84	35	119	0	0	0	0	274
Total	21	367	0	388	169	0	25	194	0	464	169	633	1	0	0	1	1216
08:00 PM	4	67	0	71	39	0	9	48	0	86	32	118	0	0	0	0	237
08:15 PM	4	74	0	78	34	0	5	39	0	69	22	91	0	0	0	0	208
08:30 PM	1	65	0	66	29	0	3	32	0	75	21	96	0	0	0	0	194
08:45 PM	2	55	0	57	26	0	2	28	0	58	24	82	0	0	0	0	167
Total	11	261	0	272	128	0	19	147	0	288	99	387	0	0	0	0	806
09:00 PM	3	60	0	63	15	0	8	23	0	73	21	94	0	0	0	0	180
09:15 PM	4	51	0	55	32	0	4	36	0	59	17	76	0	0	0	0	167
09:30 PM	3	44	0	47	25	0	2	27	0	72	19	91	0	0	0	0	165
09:45 PM	5	48	0	53	10	0	3	13	0	44	20	64	0	0	0	0	130
Total	15	203	0	218	82	0	17	99	0	248	77	325	0	0	0	0	642
10:00 PM	2	40	0	42	17	0	3	20	0	60	12	72	0	0	0	0	134
10:15 PM	3	51	0	54	20	0	4	24	0	58	15	73	0	0	0	0	151
10:30 PM	0	38	0	38	9	0	1	10	0	44	13	57	0	0	0	0	105
10:45 PM	1	33	0	34	5	0	2	7	0	33	8	41	0	0	0	0	82
Total	6	162	0	168	51	0	10	61	0	195	48	243	0	0	0	0	472
11:00 PM	2	34	0	36	10	0	1	11	0	26	6	32	0	0	0	0	79
11:15 PM	1	26	0	27	5	0	1	6	0	24	2	26	0	0	0	0	59
11:30 PM	1	21	0	22	9	0	0	9	0	33	2	35	0	0	0	0	66
11:45 PM	2	12	0	14	3	0	0	3	0	16	3	19	0	0	0	0	36
Total	6	93	0	99	27	0	2	29	0	99	13	112	0	0	0	0	240
Grand Total	461	5446	66	5973	2090	7	502	2599	36	6654	2578	9268	54	11	42	107	17947
Apprch %	7.7	91.2	1.1		80.4	0.3	19.3		0.4	71.8	27.8		50.5	10.3	39.3		
Total %	2.6	30.3	0.4	33.3	11.6	0	2.8	14.5	0.2	37.1	14.4	51.6	0.3	0.1	0.2	0.6	

City of Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive
Weather: Clear

File Name : 02_MTC_Spre_Ph0 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 4

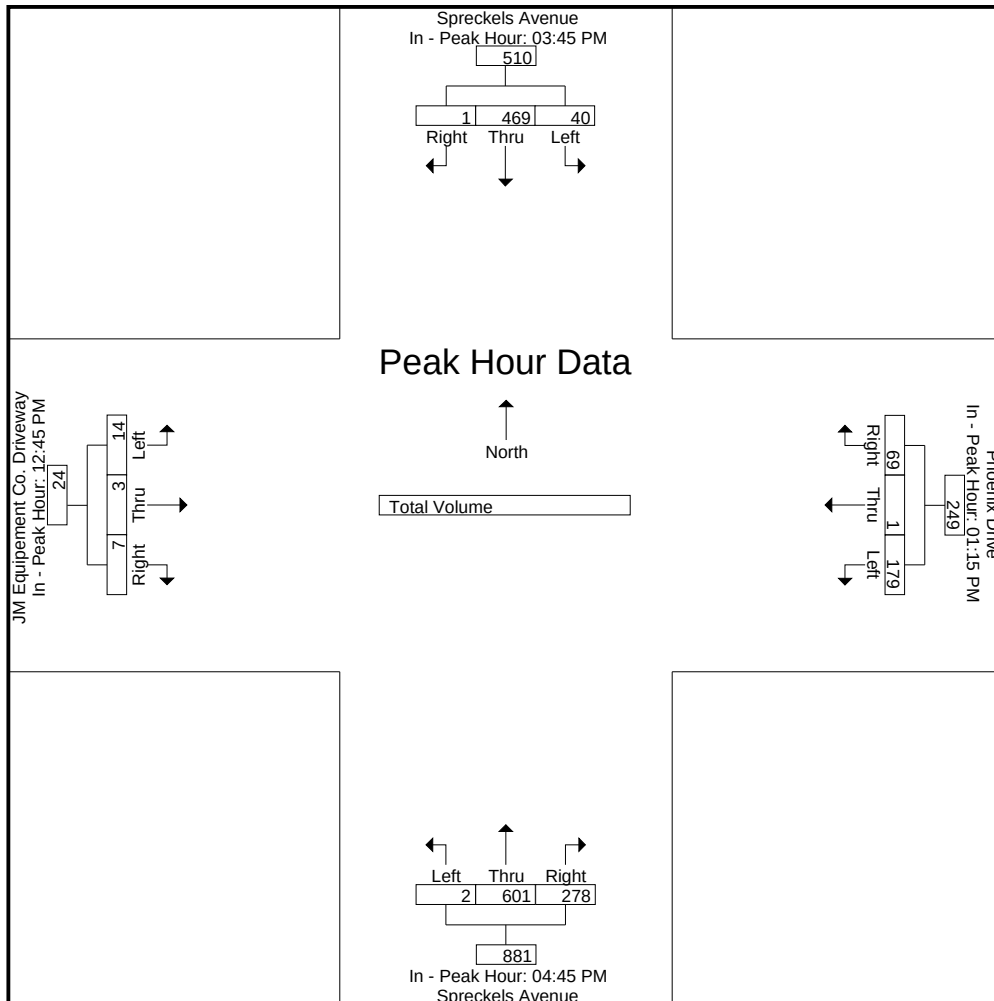
	Spreckels Avenue Southbound				Phoenix Drive Westbound				Spreckels Avenue Northbound				JM Equipement Co. Driveway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 AM to 11:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	14	111	0	125	38	0	9	47	1	156	71	228	1	0	2	3	403
05:15 PM	13	118	0	131	48	0	6	54	0	129	55	184	1	0	1	2	371
05:30 PM	3	99	0	102	38	0	10	48	1	182	92	275	0	0	1	1	426
05:45 PM	7	144	0	151	38	0	7	45	0	139	54	193	2	0	3	5	394
Total Volume	37	472	0	509	162	0	32	194	2	606	272	880	4	0	7	11	1594
% App. Total	7.3	92.7	0		83.5	0	16.5		0.2	68.9	30.9		36.4	0	63.6		
PHF	.661	.819	.000	.843	.844	.000	.800	.898	.500	.832	.739	.800	.500	.000	.583	.550	.935



City of Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive
Weather: Clear

File Name : 02_MTC_Spre_Ph0 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 5

	Spreckels Avenue Southbound				Phoenix Drive Westbound				Spreckels Avenue Northbound				JM Equipment Co. Driveway 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
Peak Hour Analysis From 12:00 AM to 11:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	03:45 PM				01:15 PM				04:45 PM				12:45 PM				
+0 mins.	7	124	0	131	38	0	24	62	0	134	60	194	3	0	0	3	
+15 mins.	11	131	0	142	45	1	23	69	1	156	71	228	6	1	4	11	
+30 mins.	10	111	0	121	53	0	12	65	0	129	55	184	5	0	1	6	
+45 mins.	12	103	1	116	43	0	10	53	1	182	92	275	0	2	2	4	
Total Volume	40	469	1	510	179	1	69	249	2	601	278	881	14	3	7	24	
% App. Total	7.8	92	0.2		71.9	0.4	27.7		0.2	68.2	31.6		58.3	12.5	29.2		
PHF	.833	.895	.250	.898	.844	.250	.719	.902	.500	.826	.755	.801	.583	.375	.438	.545	



Location: Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive



Date: 11/6/2024
Day Wednesday

PEDESTRIANS

Time	North Leg Spreckels Avenue	East Leg Phoenix Drive	South Leg Spreckels Avenue	West Leg JM Equipement Co. DW	TOTAL
12:00 AM	0	1	0	0	1
12:15 AM	0	0	0	0	0
12:30 AM	0	0	0	0	0
12:45 AM	0	0	0	0	0
1:00 AM	1	0	0	0	1
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	0	0	0	0	0
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	1	1
7:00 AM	1	0	0	0	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	1	0	0	0	1
8:45 AM	1	1	0	0	2
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
10:00 AM	0	0	0	0	0
10:15 AM	0	0	0	0	0
10:30 AM	0	0	0	0	0
10:45 AM	0	0	0	0	0
11:00 AM	1	0	0	0	1
11:15 AM	0	0	0	0	0
11:30 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0

Location: Manteca
 N/S: Spreckels Avenue
 E/W: Phoenix Drive



Date: 11/6/2024
 Day Wednesday

PEDESTRIANS

Time	North Leg Spreckels Avenue	East Leg Phoenix Drive	South Leg Spreckels Avenue	West Leg JM Equipement Co. DW	TOTAL
12:00 PM	0	0	0	0	0
12:15 PM	0	0	0	0	0
12:30 PM	2	0	0	0	2
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	1	0	0	0	1
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	0	0	0	0
2:45 PM	0	0	0	0	0
3:00 PM	0	0	0	0	0
3:15 PM	0	1	0	0	1
3:30 PM	2	0	0	0	2
3:45 PM	1	0	0	0	1
4:00 PM	0	2	0	0	2
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	3	0	0	0	3
5:45 PM	0	0	0	0	0
6:00 PM	3	0	0	0	3
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
7:00 PM	0	0	0	0	0
7:15 PM	0	0	0	0	0
7:30 PM	2	0	0	0	2
7:45 PM	0	0	0	0	0
8:00 PM	1	0	0	0	1
8:15 PM	1	0	0	0	1
8:30 PM	1	0	0	0	1
8:45 PM	1	0	0	0	1
9:00 PM	1	0	0	0	1
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	1	0	0	0	1
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	1	0	0	0	1
11:30 PM	0	0	0	0	0
11:45 PM	1	0	0	0	1
TOTAL VOLUMES:	27	5	0	1	33

Location: Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive

Date: 11/6/2024
Day: Wednesday



BICYCLES

	Southbound Spreckels Avenue			Westbound Phoenix Drive			Northbound Spreckels Avenue			Eastbound JM Equipment Co. DW			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
12:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
6:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
9:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
9:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0

Location: Manteca
N/S: Spreckels Avenue
E/W: Phoenix Drive

Date: 11/6/2024
Day: Wednesday



BICYCLES

	Southbound Spreckels Avenue			Westbound Phoenix Drive			Northbound Spreckels Avenue			Eastbound JM Equipment Co. DW			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
10:15 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
10:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
10:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	2	0	2	7	1	1	0	1	1	13	0	28

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

City of Manteca
N/S: Spreckels Avenue
E/W: Dupont Court
Weather: Clear

File Name : 03_MTC_Spre_Dup 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 1

Groups Printed- Total Volume

	Spreckels Avenue Southbound			Dupont Court Westbound			Spreckels Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
12:00 AM	0	0	0	0	0	0	2	0	2	2
12:15 AM	1	9	10	1	1	2	13	0	13	25
12:30 AM	1	24	25	1	1	2	10	2	12	39
12:45 AM	1	15	16	2	0	2	8	0	8	26
Total	3	48	51	4	2	6	33	2	35	92
01:00 AM	2	10	12	1	3	4	8	1	9	25
01:15 AM	1	12	13	2	2	4	8	0	8	25
01:30 AM	1	5	6	0	1	1	4	2	6	13
01:45 AM	0	9	9	1	0	1	6	0	6	16
Total	4	36	40	4	6	10	26	3	29	79
02:00 AM	0	3	3	0	1	1	5	0	5	9
02:15 AM	0	5	5	0	0	0	8	0	8	13
02:30 AM	1	6	7	3	5	8	27	2	29	44
02:45 AM	1	5	6	1	2	3	8	1	9	18
Total	2	19	21	4	8	12	48	3	51	84
03:00 AM	1	3	4	0	1	1	0	1	1	6
03:15 AM	1	0	1	1	0	1	2	1	3	5
03:30 AM	2	5	7	1	0	1	4	1	5	13
03:45 AM	1	2	3	1	0	1	11	1	12	16
Total	5	10	15	3	1	4	17	4	21	40
04:00 AM	3	5	8	0	0	0	5	1	6	14
04:15 AM	0	10	10	0	1	1	8	7	15	26
04:30 AM	4	12	16	1	0	1	10	4	14	31
04:45 AM	6	23	29	2	0	2	21	9	30	61
Total	13	50	63	3	1	4	44	21	65	132
05:00 AM	6	9	15	1	1	2	15	6	21	38
05:15 AM	5	8	13	1	1	2	4	1	5	20
05:30 AM	6	3	9	5	7	12	17	5	22	43
05:45 AM	12	11	23	4	6	10	17	8	25	58
Total	29	31	60	11	15	26	53	20	73	159
06:00 AM	4	12	16	3	6	9	18	4	22	47
06:15 AM	3	8	11	3	1	4	25	6	31	46
06:30 AM	10	17	27	2	3	5	50	9	59	91
06:45 AM	16	30	46	1	3	4	69	8	77	127
Total	33	67	100	9	13	22	162	27	189	311
07:00 AM	4	18	22	3	4	7	36	7	43	72
07:15 AM	4	26	30	1	7	8	39	5	44	82
07:30 AM	4	36	40	4	2	6	49	6	55	101
07:45 AM	4	34	38	2	2	4	62	4	66	108
Total	16	114	130	10	15	25	186	22	208	363
08:00 AM	4	35	39	3	3	6	63	9	72	117
08:15 AM	9	34	43	5	0	5	88	9	97	145
08:30 AM	10	69	79	6	6	12	101	5	106	197
08:45 AM	16	64	80	4	4	8	147	8	155	243
Total	39	202	241	18	13	31	399	31	430	702

City of Manteca
N/S: Spreckels Avenue
E/W: Dupont Court
Weather: Clear

File Name : 03_MTC_Spre_Dup 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 2

Groups Printed- Total Volume

	Spreckels Avenue Southbound			Dupont Court Westbound			Spreckels Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
09:00 AM	12	66	78	2	4	6	174	8	182	266
09:15 AM	10	72	82	5	9	14	104	9	113	209
09:30 AM	7	66	73	2	8	10	107	10	117	200
09:45 AM	10	75	85	6	6	12	110	5	115	212
Total	39	279	318	15	27	42	495	32	527	887
10:00 AM	8	91	99	4	7	11	104	6	110	220
10:15 AM	4	96	100	5	9	14	118	4	122	236
10:30 AM	6	100	106	1	3	4	132	6	138	248
10:45 AM	8	100	108	6	2	8	148	6	154	270
Total	26	387	413	16	21	37	502	22	524	974
11:00 AM	5	73	78	2	5	7	125	3	128	213
11:15 AM	8	99	107	2	4	6	123	7	130	243
11:30 AM	2	91	93	5	11	16	127	5	132	241
11:45 AM	8	114	122	8	1	9	142	3	145	276
Total	23	377	400	17	21	38	517	18	535	973
12:00 PM	6	108	114	8	9	17	145	5	150	281
12:15 PM	3	114	117	5	2	7	166	5	171	295
12:30 PM	3	109	112	3	8	11	123	7	130	253
12:45 PM	4	107	111	5	5	10	148	3	151	272
Total	16	438	454	21	24	45	582	20	602	1101
01:00 PM	7	128	135	2	8	10	156	4	160	305
01:15 PM	7	120	127	0	7	7	169	2	171	305
01:30 PM	6	118	124	5	20	25	135	4	139	288
01:45 PM	12	138	150	6	10	16	152	2	154	320
Total	32	504	536	13	45	58	612	12	624	1218
02:00 PM	8	103	111	5	5	10	106	6	112	233
02:15 PM	5	108	113	6	9	15	165	8	173	301
02:30 PM	3	112	115	10	11	21	136	7	143	279
02:45 PM	15	117	132	7	8	15	130	8	138	285
Total	31	440	471	28	33	61	537	29	566	1098
03:00 PM	6	134	140	6	9	15	148	5	153	308
03:15 PM	5	147	152	7	10	17	176	4	180	349
03:30 PM	4	133	137	12	24	36	191	2	193	366
03:45 PM	4	137	141	2	10	12	156	3	159	312
Total	19	551	570	27	53	80	671	14	685	1335
04:00 PM	7	153	160	8	7	15	141	6	147	322
04:15 PM	2	137	139	9	3	12	149	3	152	303
04:30 PM	3	137	140	3	6	9	145	1	146	295
04:45 PM	7	127	134	6	14	20	177	10	187	341
Total	19	554	573	26	30	56	612	20	632	1261
05:00 PM	2	140	142	8	11	19	204	7	211	372
05:15 PM	2	150	152	5	6	11	163	3	166	329
05:30 PM	5	181	186	6	9	15	181	7	188	389
05:45 PM	18	174	192	9	17	26	163	10	173	391
Total	27	645	672	28	43	71	711	27	738	1481
06:00 PM	3	158	161	6	26	32	191	3	194	387
06:15 PM	1	127	128	6	5	11	170	3	173	312

City of Manteca
N/S: Spreckels Avenue
E/W: Dupont Court
Weather: Clear

File Name : 03_MTC_Spre_Dup 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 3

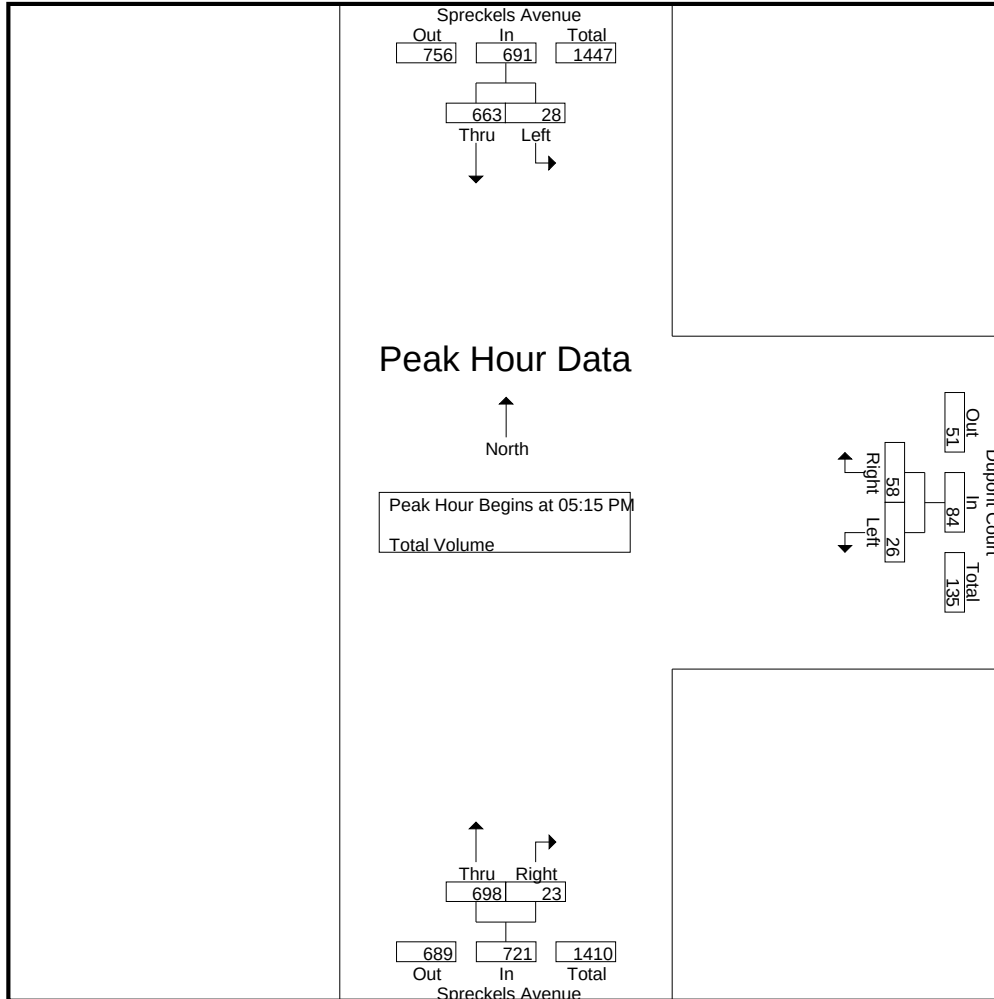
Groups Printed- Total Volume

	Spreckels Avenue Southbound			Dupont Court Westbound			Spreckels Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
06:30 PM	2	160	162	2	6	8	183	0	183	353
06:45 PM	16	163	179	2	9	11	152	9	161	351
Total	22	608	630	16	46	62	696	15	711	1403
07:00 PM	4	125	129	12	16	28	191	6	197	354
07:15 PM	3	135	138	2	5	7	137	5	142	287
07:30 PM	2	118	120	4	8	12	142	5	147	279
07:45 PM	9	139	148	3	3	6	113	10	123	277
Total	18	517	535	21	32	53	583	26	609	1197
08:00 PM	3	101	104	11	11	22	110	2	112	238
08:15 PM	4	104	108	3	2	5	87	0	87	200
08:30 PM	2	90	92	2	1	3	94	4	98	193
08:45 PM	8	74	82	2	5	7	77	11	88	177
Total	17	369	386	18	19	37	368	17	385	808
09:00 PM	5	69	74	7	10	17	82	1	83	174
09:15 PM	0	77	77	3	2	5	70	2	72	154
09:30 PM	7	70	77	0	2	2	64	1	65	144
09:45 PM	0	63	63	1	1	2	64	7	71	136
Total	12	279	291	11	15	26	280	11	291	608
10:00 PM	2	49	51	8	2	10	67	1	68	129
10:15 PM	2	73	75	4	1	5	68	3	71	151
10:30 PM	1	49	50	3	2	5	46	2	48	103
10:45 PM	1	40	41	1	2	3	43	1	44	88
Total	6	211	217	16	7	23	224	7	231	471
11:00 PM	0	43	43	2	0	2	28	1	29	74
11:15 PM	0	32	32	0	2	2	21	0	21	55
11:30 PM	1	30	31	2	10	12	21	3	24	67
11:45 PM	0	25	25	0	1	1	16	1	17	43
Total	1	130	131	4	13	17	86	5	91	239
Grand Total	452	6866	7318	343	503	846	8444	408	8852	17016
Apprch %	6.2	93.8		40.5	59.5		95.4	4.6		
Total %	2.7	40.4	43	2	3	5	49.6	2.4	52	

	Spreckels Avenue Southbound			Dupont Court Westbound			Spreckels Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 AM to 11:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:15 PM										
05:15 PM	2	150	152	5	6	11	163	3	166	329
05:30 PM	5	181	186	6	9	15	181	7	188	389
05:45 PM	18	174	192	9	17	26	163	10	173	391
06:00 PM	3	158	161	6	26	32	191	3	194	387
Total Volume	28	663	691	26	58	84	698	23	721	1496
% App. Total	4.1	95.9		31	69		96.8	3.2		
PHF	.389	.916	.900	.722	.558	.656	.914	.575	.929	.957

City of Manteca
N/S: Spreckels Avenue
E/W: Dupont Court
Weather: Clear

File Name : 03_MTC_Spre_Dup 24hrs
Site Code : 99924984
Start Date : 11/6/2024
Page No : 4



Peak Hour Analysis From 12:00 AM to 11:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:15 PM			05:15 PM			04:45 PM		
+0 mins.	2	150	152	5	6	11	177	10	187
+15 mins.	5	181	186	6	9	15	204	7	211
+30 mins.	18	174	192	9	17	26	163	3	166
+45 mins.	3	158	161	6	26	32	181	7	188
Total Volume	28	663	691	26	58	84	725	27	752
% App. Total	4.1	95.9		31	69		96.4	3.6	
PHF	.389	.916	.900	.722	.558	.656	.888	.675	.891

Location: Manteca
N/S: Spreckels Avenue
E/W: Dupont Court



Date: 11/6/2024
Day Wednesday

PEDESTRIANS

Time	North Leg Spreckels Avenue	East Leg Dupont Court	South Leg Spreckels Avenue	West Leg Dead End	TOTAL
12:00 AM	0	0	0	0	0
12:15 AM	0	0	0	0	0
12:30 AM	0	0	0	0	0
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	1	0	0	1
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	0	0	0	0	0
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
10:00 AM	0	0	0	0	0
10:15 AM	0	0	0	0	0
10:30 AM	0	0	0	0	0
10:45 AM	0	0	0	0	0
11:00 AM	0	0	0	0	0
11:15 AM	0	0	0	0	0
11:30 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0

Location: Manteca
N/S: Spreckels Avenue
E/W: Dupont Court



Date: 11/6/2024
Day Wednesday

PEDESTRIANS

Time	North Leg Spreckels Avenue	East Leg Dupont Court	South Leg Spreckels Avenue	West Leg Dead End	TOTAL
12:00 PM	0	0	0	0	0
12:15 PM	0	0	0	0	0
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	0	0	0	0
2:45 PM	0	0	0	0	0
3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM	0	1	0	0	1
3:45 PM	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
7:00 PM	0	0	0	0	0
7:15 PM	0	0	0	0	0
7:30 PM	0	0	0	0	0
7:45 PM	0	0	0	0	0
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	0	0	0	0	0
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	1	0	0	1
TOTAL VOLUMES:	0	3	0	0	3

Location: Manteca
N/S: Spreckels Avenue
E/W: Dupont Court

Date: 11/6/2024
Day: Wednesday



BICYCLES

	Southbound Spreckels Avenue			Westbound Dupont Court			Northbound Spreckels Avenue			Eastbound Dead End			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0

Location: Manteca
N/S: Spreckels Avenue
E/W: Dupont Court

Date: 11/6/2024
Day: Wednesday



BICYCLES

	Southbound Spreckels Avenue			Westbound Dupont Court			Northbound Spreckels Avenue			Eastbound Dead End			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	1	0	0	0	0	3

City of Manteca
N/S: Spreckels Avenue/Industrial Park Dr
E/W: Moffat Boulevard
Weather: Clear

File Name : 04_MTC_Spr_Mof AM
Site Code : 99924427
Start Date : 5/7/2023
Page No : 1

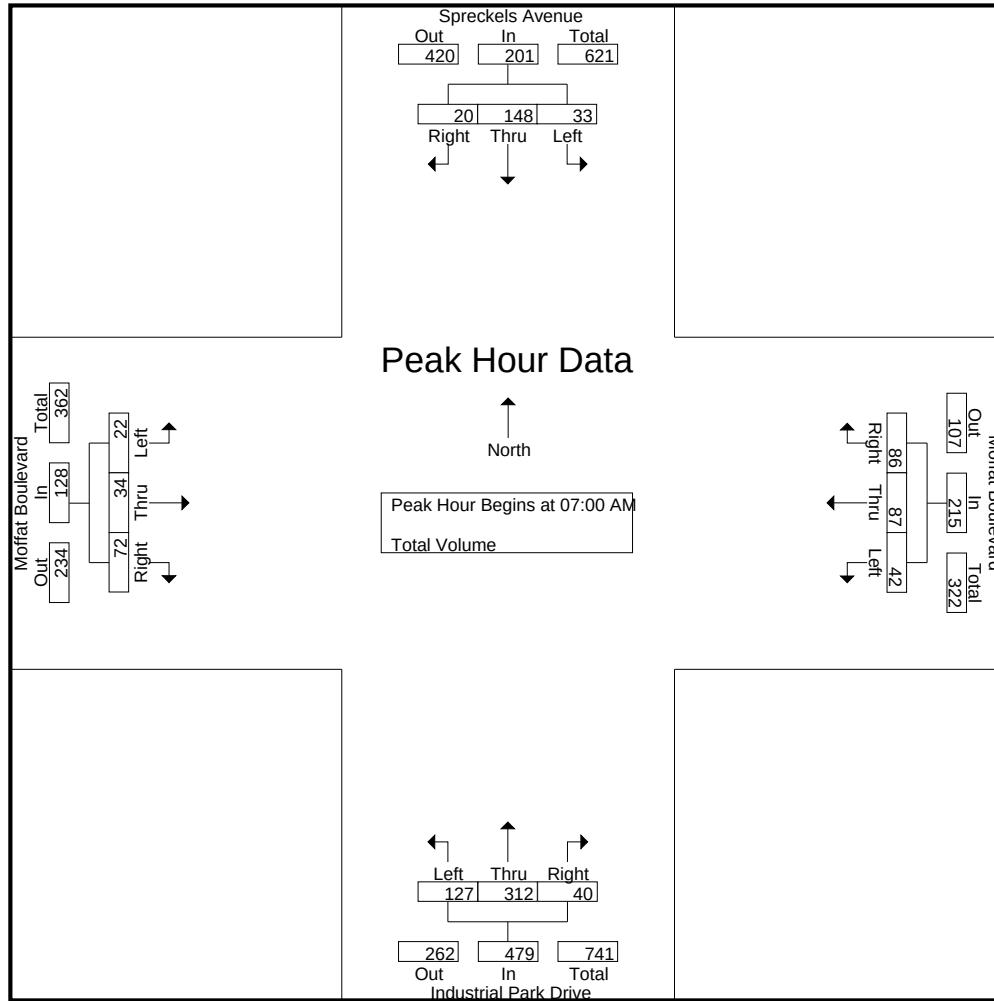
Groups Printed- Total Volume

	Spreckels Avenue Southbound				Moffat Boulevard Westbound				Industrial Park Drive Northbound				Moffat Boulevard 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
06:00 AM	14	12	1	27	7	5	9	21	3	25	3	31	3	7	9	19	98
06:15 AM	6	8	2	16	15	9	17	41	1	19	15	35	7	8	6	21	113
06:30 AM	4	31	4	39	18	15	13	46	5	45	7	57	7	15	5	27	169
06:45 AM	14	30	3	47	16	19	20	55	12	42	8	62	4	14	4	22	186
Total	38	81	10	129	56	48	59	163	21	131	33	185	21	44	24	89	566
07:00 AM	14	31	5	50	9	15	12	36	14	45	6	65	7	8	7	22	173
07:15 AM	3	28	3	34	6	19	20	45	13	69	11	93	7	10	15	32	204
07:30 AM	7	38	3	48	15	22	31	68	37	70	11	118	3	11	23	37	271
07:45 AM	9	51	9	69	12	31	23	66	63	128	12	203	5	5	27	37	375
Total	33	148	20	201	42	87	86	215	127	312	40	479	22	34	72	128	1023
Grand Total	71	229	30	330	98	135	145	378	148	443	73	664	43	78	96	217	1589
Apprch %	21.5	69.4	9.1		25.9	35.7	38.4		22.3	66.7	11		19.8	35.9	44.2		
Total %	4.5	14.4	1.9	20.8	6.2	8.5	9.1	23.8	9.3	27.9	4.6	41.8	2.7	4.9	6	13.7	

	Spreckels Avenue Southbound				Moffat Boulevard Westbound				Industrial Park Drive Northbound				Moffat Boulevard 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
Peak Hour Analysis From 06:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	14	31	5	50	9	15	12	36	14	45	6	65	7	8	7	22	173
07:15 AM	3	28	3	34	6	19	20	45	13	69	11	93	7	10	15	32	204
07:30 AM	7	38	3	48	15	22	31	68	37	70	11	118	3	11	23	37	271
07:45 AM	9	51	9	69	12	31	23	66	63	128	12	203	5	5	27	37	375
Total Volume	33	148	20	201	42	87	86	215	127	312	40	479	22	34	72	128	1023
% App. Total	16.4	73.6	10		19.5	40.5	40		26.5	65.1	8.4		17.2	26.6	56.2		
PHF	.589	.725	.556	.728	.700	.702	.694	.790	.504	.609	.833	.590	.786	.773	.667	.865	.682

City of Manteca
N/S: Spreckels Avenue/Industrial Park Dr
E/W: Moffat Boulevard
Weather: Clear

File Name : 04_MTC_Spr_Mof AM
Site Code : 99924427
Start Date : 5/7/2023
Page No : 2



Peak Hour Analysis From 06:00 AM to 07:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	14	31	5	50	9	15	12	36	14	45	6	65	7	8	7	22
+15 mins.	3	28	3	34	6	19	20	45	13	69	11	93	7	10	15	32
+30 mins.	7	38	3	48	15	22	31	68	37	70	11	118	3	11	23	37
+45 mins.	9	51	9	69	12	31	23	66	63	128	12	203	5	5	27	37
Total Volume	33	148	20	201	42	87	86	215	127	312	40	479	22	34	72	128
% App. Total	16.4	73.6	10		19.5	40.5	40		26.5	65.1	8.4		17.2	26.6	56.2	
PHF	.589	.725	.556	.728	.700	.702	.694	.790	.504	.609	.833	.590	.786	.773	.667	.865

City of Manteca
N/S: Spreckels Avenue/Industrial Park Dr
E/W: Moffat Boulevard
Weather: Clear

File Name : 04_MTC_Spr_Mof PM
Site Code : 99924427
Start Date : 5/7/2023
Page No : 1

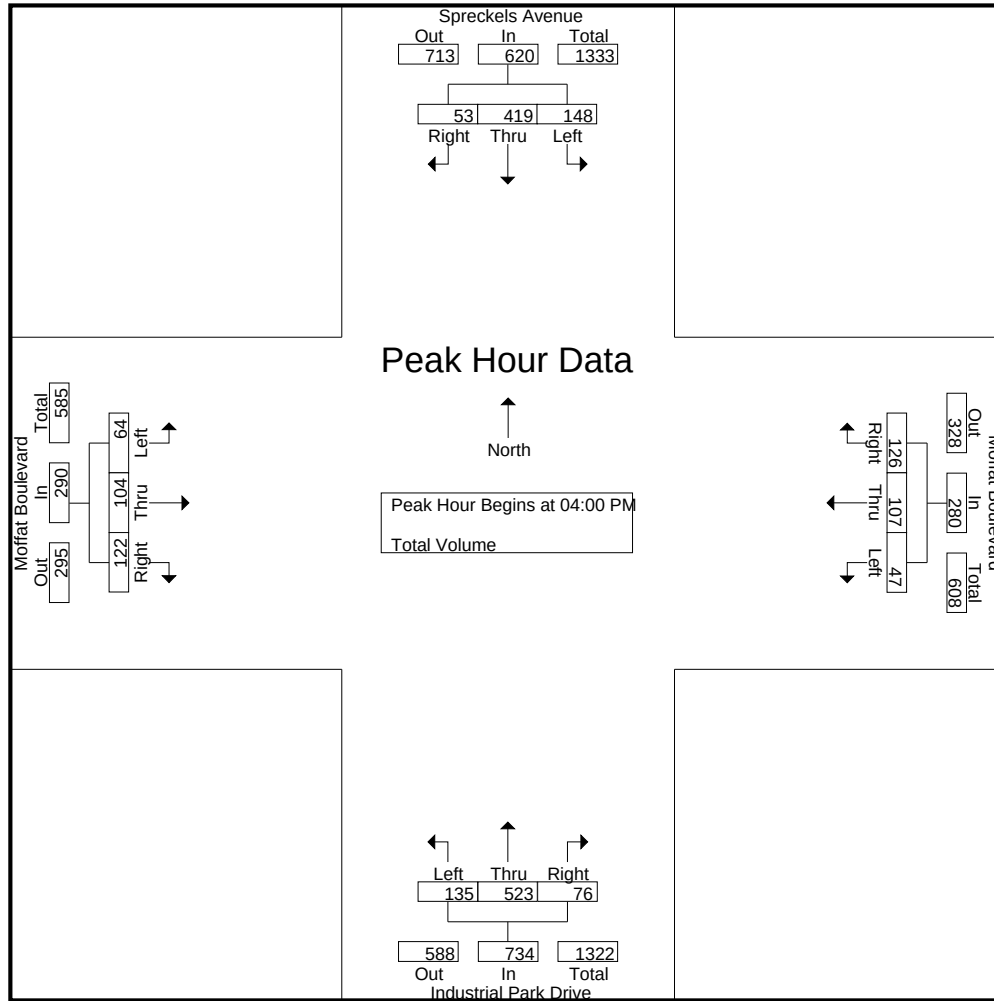
Groups Printed- Total Volume

	Spreckels Avenue Southbound				Moffat Boulevard Westbound				Industrial Park Drive Northbound				Moffat Boulevard 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	32	102	11	145	11	38	27	76	28	127	11	166	18	27	35	80	467
04:15 PM	29	129	16	174	10	25	31	66	30	133	19	182	10	24	37	71	493
04:30 PM	55	112	14	181	10	27	34	71	39	123	29	191	14	31	22	67	510
04:45 PM	32	76	12	120	16	17	34	67	38	140	17	195	22	22	28	72	454
Total	148	419	53	620	47	107	126	280	135	523	76	734	64	104	122	290	1924
05:00 PM	54	108	9	171	18	22	28	68	19	111	19	149	7	28	19	54	442
05:15 PM	31	117	13	161	15	26	25	66	24	126	28	178	15	26	25	66	471
05:30 PM	24	96	11	131	9	34	26	69	28	137	26	191	10	29	24	63	454
05:45 PM	27	114	15	156	8	28	16	52	27	118	15	160	11	25	24	60	428
Total	136	435	48	619	50	110	95	255	98	492	88	678	43	108	92	243	1795
Grand Total	284	854	101	1239	97	217	221	535	233	1015	164	1412	107	212	214	533	3719
Apprch %	22.9	68.9	8.2		18.1	40.6	41.3		16.5	71.9	11.6		20.1	39.8	40.2		
Total %	7.6	23	2.7	33.3	2.6	5.8	5.9	14.4	6.3	27.3	4.4	38	2.9	5.7	5.8	14.3	

	Spreckels Avenue Southbound				Moffat Boulevard Westbound				Industrial Park Drive Northbound				Moffat Boulevard 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
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	32	102	11	145	11	38	27	76	28	127	11	166	18	27	35	80	467
04:15 PM	29	129	16	174	10	25	31	66	30	133	19	182	10	24	37	71	493
04:30 PM	55	112	14	181	10	27	34	71	39	123	29	191	14	31	22	67	510
04:45 PM	32	76	12	120	16	17	34	67	38	140	17	195	22	22	28	72	454
Total Volume	148	419	53	620	47	107	126	280	135	523	76	734	64	104	122	290	1924
% App. Total	23.9	67.6	8.5		16.8	38.2	45		18.4	71.3	10.4		22.1	35.9	42.1		
PHF	.673	.812	.828	.856	.734	.704	.926	.921	.865	.934	.655	.941	.727	.839	.824	.906	.943

City of Manteca
N/S: Spreckels Avenue/Industrial Park Dr
E/W: Moffat Boulevard
Weather: Clear

File Name : 04_MTC_Spr_Mof PM
Site Code : 99924427
Start Date : 5/7/2023
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:

	04:15 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	29	129	16	174	11	38	27	76	28	127	11	166	18	27	35	80
+15 mins.	55	112	14	181	10	25	31	66	30	133	19	182	10	24	37	71
+30 mins.	32	76	12	120	10	27	34	71	39	123	29	191	14	31	22	67
+45 mins.	54	108	9	171	16	17	34	67	38	140	17	195	22	22	28	72
Total Volume	170	425	51	646	47	107	126	280	135	523	76	734	64	104	122	290
% App. Total	26.3	65.8	7.9		16.8	38.2	45		18.4	71.3	10.4		22.1	35.9	42.1	
PHF	.773	.824	.797	.892	.734	.704	.926	.921	.865	.934	.655	.941	.727	.839	.824	.906

Location: Manteca
 N/S: Spreckels Avenue
 E/W: Moffat Boulevard



Date: 5/7/2024
 Day: Tuesday

PEDESTRIANS

		North Leg Spreckels Avenue	East Leg Moffat Boulevard	South Leg Industrial Park Drive	West Leg Moffat Boulevard	
		Pedestrians	Pedestrians	Pedestrians	Pedestrians	
	6:00 AM	0	0	0	0	0
	6:15 AM	0	0	0	0	0
	6:30 AM	0	0	0	0	0
	6:45 AM	0	0	0	0	0
	7:00 AM	0	0	0	0	0
	7:15 AM	0	0	1	0	1
	7:30 AM	0	0	0	1	1
	7:45 AM	0	0	0	0	0
	TOTAL VOLUMES:	0	0	1	1	2

		North Leg Spreckels Avenue	East Leg Moffat Boulevard	South Leg Industrial Park Drive	West Leg Moffat Boulevard	
		Pedestrians	Pedestrians	Pedestrians	Pedestrians	
	4:00 PM	0	0	2	2	4
	4:15 PM	0	0	1	0	1
	4:30 PM	0	0	0	0	0
	4:45 PM	1	0	0	0	1
	5:00 PM	0	0	0	0	0
	5:15 PM	1	1	0	0	2
	5:30 PM	0	2	1	0	3
	5:45 PM	0	0	0	0	0
	TOTAL VOLUMES:	2	3	4	2	11

Location: Manteca
 N/S: Spreckels Avenue
 E/W: Moffat Boulevard



Date: 5/7/2024
 Day: Tuesday

BICYCLES

		Southbound Spreckels Avenue			Westbound Moffat Boulevard			Northbound Industrial Park Drive			Eastbound Moffat Boulevard			
		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
	6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	2
	7:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	2
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:		0	1	0	0	0	0	1	1	0	0	1	1	5

		Southbound Spreckels Avenue			Westbound Moffat Boulevard			Northbound Industrial Park Drive			Eastbound Moffat Boulevard			
		Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
	4:00 PM	1	1	0	0	0	0	0	1	0	0	0	0	3
	4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
	4:30 PM	0	1	1	0	1	1	0	1	0	0	0	0	5
	4:45 PM	0	0	1	0	0	1	0	0	0	0	1	0	3
	5:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	5:15 PM	1	0	0	0	0	0	0	3	0	0	0	0	4
	5:30 PM	0	1	0	0	0	0	0	1	0	0	0	0	2
	5:45 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
TOTAL VOLUMES:		2	6	2	0	4	2	0	6	0	0	1	0	23

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2024
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		  			 		 				 	
Traffic Volume (veh/h)	66	509	94	203	451	110	126	213	350	176	207	44
Future Volume (veh/h)	66	509	94	203	451	110	126	213	350	176	207	44
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No				No				No		No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	72	553	102	221	490	120	137	232	380	191	225	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	91	1327	240	263	1040	253	195	481	780	220	493	105
HCM 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
Prop Arrive On Green	0.06	0.31	0.31	0.12	0.37	0.37	0.06	0.26	0.26	0.13	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	63.5	30.2	31.6	61.0	27.8	28.0	52.9	36.5	12.2	67.7	0.0	30.2
Ln Grp LOS	E	C	C	E	C	C	D	D	B	E		C
Approach Vol, veh/h	727				831				749		464	
Approach Delay, s/veh	33.9				36.7				27.2		45.7	
Approach LOS	C				D				C		D	
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	2	1	3	4	5	6	7	8				
Case No	3.0	2.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	31.9	19.0	17.2	37.0	11.3	39.5	10.7	43.4				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	27.0	16.5	14.8	27.1	9.2	34.3	10.6	31.3				
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.1				
Max Q Clear (g_c+I1), s	13.0	14.0	12.1	12.9	6.4	14.5	6.6	16.0				
Green Ext Time (g_e), s	2.1	0.1	0.2	2.3	0.1	0.9	0.0	2.0				
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	0.98	1.00	0.88	1.00				
Prob of Max Out (p_x)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00				
Left-Turn Movement Data												
Assigned Mvmt			1	3			5	7				
Mvmt Sat Flow, veh/h			1641	2250			3183	1641				
Through Movement Data												
Assigned Mvmt	2			4			6		8			
Mvmt Sat Flow, veh/h	1870			4346			1494		2833			
Right-Turn Movement Data												
Assigned Mvmt	12				14			16		18		
Mvmt Sat Flow, veh/h	2086				787			319		690		
Left Lane Group Data												
Assigned Mvmt	0	1	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2024
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	191	221	0	137	0	72	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	12.0	10.1	0.0	4.4	0.0	4.6	0.0
Cycle Q Clear Time (g_c), s	0.0	12.0	10.1	0.0	4.4	0.0	4.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	220	263	0	195	0	91	0
V/C Ratio (X)	0.00	0.87	0.84	0.00	0.70	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	44.6	45.4	0.0	48.4	0.0	49.0	0.0
Incr Delay (d2), s/veh	0.0	23.1	15.6	0.0	4.6	0.0	14.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	67.7	61.0	0.0	52.9	0.0	63.5	0.0
1st-Term Q (Q1), veh/ln	0.0	4.6	5.3	0.0	1.7	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.4	1.1	0.0	0.1	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.0	6.5	0.0	1.8	0.0	2.1	0.0
%ile Storage Ratio (RQ%)	0.00	1.53	1.37	0.00	0.05	0.00	0.36	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	232	0	0	431	0	0	0	306
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	11.0	0.0	0.0	10.6	0.0	0.0	0.0	13.8
Cycle Q Clear Time (g_c), s	11.0	0.0	0.0	10.6	0.0	0.0	0.0	13.8
Lane Grp Cap (c), veh/h	481	0	0	1039	0	0	0	652
V/C Ratio (X)	0.48	0.00	0.00	0.41	0.00	0.00	0.00	0.47
Avail Cap (c_a), veh/h	481	0	0	1039	0	0	0	652
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	33.1	0.0	0.0	29.0	0.0	0.0	0.0	25.4
Incr Delay (d2), s/veh	3.4	0.0	0.0	1.2	0.0	0.0	0.0	2.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	36.5	0.0	0.0	30.2	0.0	0.0	0.0	27.8
1st-Term Q (Q1), veh/ln	4.7	0.0	0.0	4.0	0.0	0.0	0.0	5.4

HCM 7th Signalized Intersection Capacity Analysis

PM 2024

11/22/2024

1: Spreckels Ave/Cottage Ave & Yosemite Ave

2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.1	0.0	0.0	4.2	0.0	0.0	0.0	5.8
%ile Storage Ratio (RQ%)	0.15	0.00	0.00	0.05	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	380	0	0	224	0	273	0	304
Grp Sat Flow (s), veh/h/ln	2086	0	0	1729	0	1813	0	1746
Q Serve Time (g_s), s	8.2	0.0	0.0	10.9	0.0	12.5	0.0	14.0
Cycle Q Clear Time (g_c), s	8.2	0.0	0.0	10.9	0.0	12.5	0.0	14.0
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.46	0.00	0.18	0.00	0.40
Lane Grp Cap (c), veh/h	780	0	0	528	0	598	0	641
V/C Ratio (X)	0.49	0.00	0.00	0.42	0.00	0.46	0.00	0.47
Avail Cap (c_a), veh/h	780	0	0	528	0	598	0	641
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	10.1	0.0	0.0	29.1	0.0	27.7	0.0	25.5
Incr Delay (d2), s/veh	2.2	0.0	0.0	2.5	0.0	2.5	0.0	2.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.2	0.0	0.0	31.6	0.0	30.2	0.0	28.0
1st-Term Q (Q1), veh/ln	3.9	0.0	0.0	4.2	0.0	5.0	0.0	5.3
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.4	0.0	0.4	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.4	0.0	0.0	4.5	0.0	5.4	0.0	5.8
%ile Storage Ratio (RQ%)	0.75	0.00	0.00	0.06	0.00	0.09	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	34.9
HCM 7th LOS	C

Intersection						
Int Delay, s/veh	3.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	100	77	67	587	408	84
Future Vol, veh/h	100	77	67	587	408	84
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	109	84	73	638	443	91

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	954	267	535	0	-	0
Stage 1	489	-	-	-	-	-
Stage 2	465	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	257	731	1029	-	-	-
Stage 1	582	-	-	-	-	-
Stage 2	599	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	235	731	1029	-	-	-
Mov Cap-2 Maneuver	235	-	-	-	-	-
Stage 1	532	-	-	-	-	-
Stage 2	599	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v23.19		1.45	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	369	-	235	731	-	-
HCM Lane V/C Ratio	0.071	-	0.463	0.115	-	-
HCM Control Delay (s/veh)	8.8	0.6	32.9	10.6	-	-
HCM Lane LOS	A	A	D	B	-	-
HCM 95th %tile Q(veh)	0.2	-	2.3	0.4	-	-

Intersection						
Int Delay, s/veh	12.2					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	162	32	606	272	37	472
Future Vol, veh/h	162	32	606	272	37	472
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	176	35	659	296	40	513
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1143	477	0	0	954	0
Stage 1	807	-	-	-	-	-
Stage 2	337	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	193	534	-	-	716	-
Stage 1	400	-	-	-	-	-
Stage 2	695	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	181	534	-	-	716	-
Mov Cap-2 Maneuver	181	-	-	-	-	-
Stage 1	400	-	-	-	-	-
Stage 2	649	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v96.09		0		1.29		
HCM LOS	F					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	181	534	262	-
HCM Lane V/C Ratio	-	-	0.974	0.065	0.056	-
HCM Control Delay (s/veh)	-	-	112.7	12.2	10.3	0.6
HCM Lane LOS	-	-	F	B	B	A
HCM 95th %tile Q(veh)	-	-	7.8	0.2	0.2	-

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	26	58	698	23	28	663
Future Vol, veh/h	26	58	698	23	28	663
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	28	63	759	25	30	721
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1192	392	0	0	784	0
Stage 1	771	-	-	-	-	-
Stage 2	421	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	180	607	-	-	830	-
Stage 1	417	-	-	-	-	-
Stage 2	630	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	172	607	-	-	830	-
Mov Cap-2 Maneuver	172	-	-	-	-	-
Stage 1	417	-	-	-	-	-
Stage 2	601	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v17.33		0	0.77			
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT	
Capacity (veh/h)	-	-	172 607	146	-	
HCM Lane V/C Ratio	-	-	0.165 0.104	0.037	-	
HCM Control Delay (s/veh)	-	-	30.1 11.6	9.5	0.4	
HCM Lane LOS	-	-	D B	A	A	
HCM 95th %tile Q(veh)	-	-	0.6 0.3	0.1	-	

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2024
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	64	104	122	47	107	126	135	523	76	148	419	53
Future Volume (veh/h)	64	104	122	47	107	126	135	523	76	148	419	53
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	70	113	133	51	116	137	147	568	83	161	455	58
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	88	190	170	190	132	156	176	1650	240	219	1561	198
HCM 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
Prop Arrive On Green	0.05	0.11	0.11	0.12	0.17	0.17	0.11	0.53	0.53	0.07	0.49	0.49
Unsig. Movement Delay												
Ln Grp Delay, s/veh	66.2	49.8	55.5	45.2	0.0	56.2	59.2	15.8	15.9	55.0	17.4	17.4
Ln Grp LOS	E	D	E	D		E	E	B	B	D	B	B
Approach Vol, veh/h	316			304			798			674		
Approach Delay, s/veh	55.8			54.3			23.8			26.4		
Approach LOS	E			D			C			C		
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	12.5	63.2	16.7	17.6	16.7	59.0	10.8	23.5				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	7.5	13.6	11.0	5.1	11.7	11.4	6.6	17.9				
Green Ext Time (g_e), s	0.2	2.4	0.8	0.0	0.2	1.7	0.1	0.7				
Prob of Phs Call (p_c)	0.99	1.00	1.00	0.79	0.99	1.00	0.88	1.00				
Prob of Max Out (p_x)	1.00	0.00	0.00	0.70	0.06	0.00	0.66	0.01				
Left-Turn Movement Data												
Assigned Mvmt	1			3			5			7		
Mvmt Sat Flow, veh/h	3183			1641			1641			1641		
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	3112			1777			3172			781		
Right-Turn Movement Data												
Assigned Mvmt	12			14			16			18		
Mvmt Sat Flow, veh/h	454			1585			402			923		
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2024
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		
Lanes in Grp	2	0	0	1	1	0	1	0
Grp Vol (v), veh/h	161	0	0	51	147	0	70	0
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0
Q Serve Time (g_s), s	5.5	0.0	0.0	3.1	9.7	0.0	4.6	0.0
Cycle Q Clear Time (g_c), s	5.5	0.0	0.0	3.1	9.7	0.0	4.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	219	0	0	190	176	0	88	0
V/C Ratio (X)	0.73	0.00	0.00	0.27	0.84	0.00	0.80	0.00
Avail Cap (c_a), veh/h	321	0	0	190	285	0	166	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	50.2	0.0	0.0	44.4	48.2	0.0	51.5	0.0
Incr Delay (d2), s/veh	4.8	0.0	0.0	0.8	11.1	0.0	14.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	55.0	0.0	0.0	45.2	59.2	0.0	66.2	0.0
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.2	3.8	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.5	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.2	0.0	0.0	1.3	4.3	0.0	2.2	0.0
%ile Storage Ratio (RQ%)	0.28	0.00	0.00	0.16	0.55	0.00	0.28	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment	T			T				
Lanes in Grp	0	1	1	0	0	1	0	0
Grp Vol (v), veh/h	0	324	113	0	0	254	0	0
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0
Q Serve Time (g_s), s	0.0	11.5	6.7	0.0	0.0	9.3	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	11.5	6.7	0.0	0.0	9.3	0.0	0.0
Lane Grp Cap (c), veh/h	0	942	190	0	0	874	0	0
V/C Ratio (X)	0.00	0.34	0.59	0.00	0.00	0.29	0.00	0.00
Avail Cap (c_a), veh/h	0	942	496	0	0	874	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	14.8	46.8	0.0	0.0	16.6	0.0	0.0
Incr Delay (d2), s/veh	0.0	1.0	2.9	0.0	0.0	0.8	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	15.8	49.8	0.0	0.0	17.4	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	4.1	2.8	0.0	0.0	3.4	0.0	0.0

HCM 7th Signalized Intersection Capacity Analysis

PM 2024

5: Spreckels Ave & Moffat Blvd

11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.3	0.2	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.4	3.0	0.0	0.0	3.6	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.10	0.12	0.00	0.00	0.92	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	327	133	0	0	259	0	253
Grp Sat Flow (s), veh/h/ln	0	1789	1585	0	0	1798	0	1704
Q Serve Time (g_s), s	0.0	11.6	9.0	0.0	0.0	9.4	0.0	15.9
Cycle Q Clear Time (g_c), s	0.0	11.6	9.0	0.0	0.0	9.4	0.0	15.9
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.25	1.00	0.00	0.00	0.22	0.00	0.54
Lane Grp Cap (c), veh/h	0	948	170	0	0	885	0	288
V/C Ratio (X)	0.00	0.35	0.78	0.00	0.00	0.29	0.00	0.88
Avail Cap (c_a), veh/h	0	948	442	0	0	885	0	451
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	14.9	47.9	0.0	0.0	16.6	0.0	44.6
Incr Delay (d2), s/veh	0.0	1.0	7.7	0.0	0.0	0.8	0.0	11.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	15.9	55.5	0.0	0.0	17.4	0.0	56.2
1st-Term Q (Q1), veh/ln	0.0	4.1	3.4	0.0	0.0	3.5	0.0	6.3
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.4	0.0	0.0	0.2	0.0	0.9
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.4	3.7	0.0	0.0	3.7	0.0	7.3
%ile Storage Ratio (RQ%)	0.00	0.10	0.15	0.00	0.00	0.94	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	33.9
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2024+Project

11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	66	509	95	207	451	110	128	219	357	176	209	44
Future Volume (veh/h)	66	509	95	207	451	110	128	219	357	176	209	44
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No				No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	72	553	103	225	490	120	139	238	388	191	227	48
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	91	1317	241	267	1040	253	197	481	784	220	493	104
HCM 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
Prop Arrive On Green	0.06	0.30	0.30	0.12	0.37	0.37	0.06	0.26	0.26	0.13	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	63.5	30.4	31.8	61.4	27.8	28.0	52.9	36.8	12.3	67.7	0.0	30.4
Ln Grp LOS	E	C	C	E	C	C	D	D	B	E		C
Approach Vol, veh/h	728				835				765			
Approach Delay, s/veh	34.1				36.9				27.3			
Approach LOS	C				D				C			
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	2	1	3	4	5	6	7	8				
Case No	3.0	2.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	31.9	19.0	17.3	36.8	11.4	39.5	10.7	43.4				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	27.0	16.5	14.8	27.1	9.2	34.3	10.6	31.3				
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.1				
Max Q Clear (g_c+I1), s	13.4	14.0	12.3	12.9	6.5	14.6	6.6	16.0				
Green Ext Time (g_e), s	2.1	0.1	0.2	2.3	0.1	0.9	0.0	2.0				
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	0.98	1.00	0.88	1.00				
Prob of Max Out (p_x)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00				
Left-Turn Movement Data												
Assigned Mvmt			1	3			5	7				
Mvmt Sat Flow, veh/h			1641	2250			3183	1641				
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	1870			4338			1497			2833		
Right-Turn Movement Data												
Assigned Mvmt	12				14				16			
Mvmt Sat Flow, veh/h	2086				793				317			
Left Lane Group Data												
Assigned Mvmt	0	1	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2024+Project

11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	191	225	0	139	0	72	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	12.0	10.3	0.0	4.5	0.0	4.6	0.0
Cycle Q Clear Time (g_c), s	0.0	12.0	10.3	0.0	4.5	0.0	4.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	220	267	0	197	0	91	0
V/C Ratio (X)	0.00	0.87	0.84	0.00	0.71	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	44.6	45.3	0.0	48.3	0.0	49.0	0.0
Incr Delay (d2), s/veh	0.0	23.1	16.1	0.0	4.6	0.0	14.4	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	67.7	61.4	0.0	52.9	0.0	63.5	0.0
1st-Term Q (Q1), veh/ln	0.0	4.6	5.4	0.0	1.7	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.4	1.2	0.0	0.1	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.0	6.6	0.0	1.8	0.0	2.1	0.0
%ile Storage Ratio (RQ%)	0.00	1.53	1.40	0.00	0.05	0.00	0.36	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	238	0	0	432	0	0	0	306
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	11.4	0.0	0.0	10.6	0.0	0.0	0.0	13.8
Cycle Q Clear Time (g_c), s	11.4	0.0	0.0	10.6	0.0	0.0	0.0	13.8
Lane Grp Cap (c), veh/h	481	0	0	1034	0	0	0	652
V/C Ratio (X)	0.49	0.00	0.00	0.42	0.00	0.00	0.00	0.47
Avail Cap (c_a), veh/h	481	0	0	1034	0	0	0	652
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	33.2	0.0	0.0	29.2	0.0	0.0	0.0	25.4
Incr Delay (d2), s/veh	3.6	0.0	0.0	1.2	0.0	0.0	0.0	2.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	36.8	0.0	0.0	30.4	0.0	0.0	0.0	27.8
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	4.0	0.0	0.0	0.0	5.4

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2024+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.3	0.0	0.0	4.2	0.0	0.0	0.0	5.8
%ile Storage Ratio (RQ%)	0.15	0.00	0.00	0.05	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	388	0	0	224	0	275	0	304
Grp Sat Flow (s), veh/h/ln	2086	0	0	1728	0	1813	0	1746
Q Serve Time (g_s), s	8.4	0.0	0.0	10.9	0.0	12.6	0.0	14.0
Cycle Q Clear Time (g_c), s	8.4	0.0	0.0	10.9	0.0	12.6	0.0	14.0
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.46	0.00	0.17	0.00	0.40
Lane Grp Cap (c), veh/h	784	0	0	525	0	597	0	641
V/C Ratio (X)	0.50	0.00	0.00	0.43	0.00	0.46	0.00	0.47
Avail Cap (c_a), veh/h	784	0	0	525	0	597	0	641
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	10.0	0.0	0.0	29.3	0.0	27.8	0.0	25.5
Incr Delay (d2), s/veh	2.2	0.0	0.0	2.5	0.0	2.5	0.0	2.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.3	0.0	0.0	31.8	0.0	30.4	0.0	28.0
1st-Term Q (Q1), veh/ln	4.0	0.0	0.0	4.2	0.0	5.0	0.0	5.3
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.4	0.0	0.4	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.5	0.0	0.0	4.6	0.0	5.5	0.0	5.8
%ile Storage Ratio (RQ%)	0.76	0.00	0.00	0.06	0.00	0.09	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	35.0
HCM 7th LOS	D

Intersection						
Int Delay, s/veh	3.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	100	77	67	602	415	84
Future Vol, veh/h	100	77	67	602	415	84
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	109	84	73	654	451	91

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	970	271	542	0	-	0
Stage 1	497	-	-	-	-	-
Stage 2	473	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	251	727	1023	-	-	-
Stage 1	577	-	-	-	-	-
Stage 2	593	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	229	727	1023	-	-	-
Mov Cap-2 Maneuver	229	-	-	-	-	-
Stage 1	527	-	-	-	-	-
Stage 2	593	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v23.91		1.44	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	361	-	229	727	-	-
HCM Lane V/C Ratio	0.071	-	0.475	0.115	-	-
HCM Control Delay (s/veh)	8.8	0.6	34.2	10.6	-	-
HCM Lane LOS	A	A	D	B	-	-
HCM 95th %tile Q(veh)	0.2	-	2.3	0.4	-	-

Intersection						
Int Delay, s/veh	13.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	162	32	621	272	37	479
Future Vol, veh/h	162	32	621	272	37	479
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	176	35	675	296	40	521
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1164	485	0	0	971	0
Stage 1	823	-	-	-	-	-
Stage 2	341	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	188	528	-	-	706	-
Stage 1	392	-	-	-	-	-
Stage 2	692	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 175	528	-	-	706	-
Mov Cap-2 Maneuver	~ 175	-	-	-	-	-
Stage 1	392	-	-	-	-	-
Stage 2	646	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/veh	4.81	0		1.3		
HCM LOS	F					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	175	528	258	-
HCM Lane V/C Ratio	-	-	1.005	0.066	0.057	-
HCM Control Delay (s/veh)	-	-	123.1	12.3	10.4	0.6
HCM Lane LOS	-	-	F	B	B	A
HCM 95th %tile Q(veh)	-	-	8.2	0.2	0.2	-
Notes						
~: Volume exceeds capacity		\$: Delay exceeds 300s		+: Computation Not Defined		*: All major volume in platoon

Intersection						
Int Delay, s/veh	1.3					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	26	58	708	23	28	683
Future Vol, veh/h	26	58	708	23	28	683
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	28	63	770	25	30	742
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	1214	397	0	0	795	0
Stage 1	782	-	-	-	-	-
Stage 2	432	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	174	602	-	-	823	-
Stage 1	411	-	-	-	-	-
Stage 2	622	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	166	602	-	-	823	-
Mov Cap-2 Maneuver	166	-	-	-	-	-
Stage 1	411	-	-	-	-	-
Stage 2	593	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v	17.69	0	0.77			
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	166	602	142	-
HCM Lane V/C Ratio	-	-	0.17	0.105	0.037	-
HCM Control Delay (s/veh)	-	-	31.1	11.7	9.5	0.4
HCM Lane LOS	-	-	D	B	A	A
HCM 95th %tile Q(veh)	-	-	0.6	0.3	0.1	-

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2024+Project
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	65	104	122	47	107	128	135	530	76	152	433	55
Future Volume (veh/h)	65	104	122	47	107	128	135	530	76	152	433	55
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No				No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	71	113	133	51	116	139	147	576	83	165	471	60
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	89	190	170	193	132	158	176	1643	236	223	1555	197
HCM 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
Prop Arrive On Green	0.05	0.11	0.11	0.12	0.17	0.17	0.11	0.53	0.53	0.07	0.49	0.49
Unsig. Movement Delay												
Ln Grp Delay, s/veh	66.0	49.8	55.5	44.9	0.0	56.3	59.2	16.1	16.1	55.3	17.7	17.7
Ln Grp LOS	E	D	E	D		E	E	B	B	E	B	B
Approach Vol, veh/h	317				306				806			
Approach Delay, s/veh	55.8				54.4				24.0			
Approach LOS	E				D				C			
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	12.6	62.9	16.7	17.8	16.7	58.8	10.9	23.6				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	7.6	13.8	11.0	5.1	11.7	11.8	6.7	18.1				
Green Ext Time (g_e), s	0.2	2.4	0.8	0.0	0.2	1.8	0.1	0.7				
Prob of Phs Call (p_c)	0.99	1.00	1.00	0.79	0.99	1.00	0.89	1.00				
Prob of Max Out (p_x)	1.00	0.00	0.00	0.69	0.06	0.00	0.71	0.02				
Left-Turn Movement Data												
Assigned Mvmt	1			3			5			7		
Mvmt Sat Flow, veh/h	3183			1641			1641			1641		
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	3118			1777			3172			775		
Right-Turn Movement Data												
Assigned Mvmt	12			14			16			18		
Mvmt Sat Flow, veh/h	448			1585			402			928		
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2024+Project
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	2	0	0	1	1	0	1	0	
Grp Vol (v), veh/h	165	0	0	51	147	0	71	0	
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0	
Q Serve Time (g_s), s	5.6	0.0	0.0	3.1	9.7	0.0	4.7	0.0	
Cycle Q Clear Time (g_c), s	5.6	0.0	0.0	3.1	9.7	0.0	4.7	0.0	
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0	
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0	
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
Lane Grp Cap (c), veh/h	223	0	0	193	176	0	89	0	
V/C Ratio (X)	0.74	0.00	0.00	0.26	0.84	0.00	0.80	0.00	
Avail Cap (c_a), veh/h	321	0	0	193	285	0	166	0	
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d1), s/veh	50.2	0.0	0.0	44.2	48.2	0.0	51.4	0.0	
Incr Delay (d2), s/veh	5.2	0.0	0.0	0.7	11.1	0.0	14.6	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	55.3	0.0	0.0	44.9	59.2	0.0	66.0	0.0	
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.2	3.8	0.0	1.8	0.0	
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.5	0.0	0.4	0.0	
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
%ile Back of Q (50%), veh/ln	2.3	0.0	0.0	1.2	4.3	0.0	2.2	0.0	
%ile Storage Ratio (RQ%)	0.29	0.00	0.00	0.16	0.55	0.00	0.28	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Middle Lane Group Data									
Assigned Mvmt	0	2	4	0	0	6	0	8	
Lane Assignment	T			T			T		
Lanes in Grp	0	1	1	0	0	1	0	0	
Grp Vol (v), veh/h	0	328	113	0	0	263	0	0	
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0	
Q Serve Time (g_s), s	0.0	11.8	6.7	0.0	0.0	9.7	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	11.8	6.7	0.0	0.0	9.7	0.0	0.0	
Lane Grp Cap (c), veh/h	0	936	190	0	0	871	0	0	
V/C Ratio (X)	0.00	0.35	0.59	0.00	0.00	0.30	0.00	0.00	
Avail Cap (c_a), veh/h	0	936	496	0	0	871	0	0	
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	15.1	46.8	0.0	0.0	16.8	0.0	0.0	
Incr Delay (d2), s/veh	0.0	1.0	2.9	0.0	0.0	0.9	0.0	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	16.1	49.8	0.0	0.0	17.7	0.0	0.0	
1st-Term Q (Q1), veh/ln	0.0	4.2	2.8	0.0	0.0	3.6	0.0	0.0	

HCM 7th Signalized Intersection Capacity Analysis 5: Spreckels Ave & Moffat Blvd

PM 2024+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.3	0.2	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.5	3.0	0.0	0.0	3.8	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.10	0.12	0.00	0.00	0.96	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	331	133	0	0	268	0	255
Grp Sat Flow (s), veh/h/ln	0	1790	1585	0	0	1798	0	1703
Q Serve Time (g_s), s	0.0	11.8	9.0	0.0	0.0	9.8	0.0	16.1
Cycle Q Clear Time (g_c), s	0.0	11.8	9.0	0.0	0.0	9.8	0.0	16.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.25	1.00	0.00	0.00	0.22	0.00	0.55
Lane Grp Cap (c), veh/h	0	943	170	0	0	881	0	290
V/C Ratio (X)	0.00	0.35	0.78	0.00	0.00	0.30	0.00	0.88
Avail Cap (c_a), veh/h	0	943	442	0	0	881	0	451
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	15.1	47.9	0.0	0.0	16.8	0.0	44.5
Incr Delay (d2), s/veh	0.0	1.0	7.7	0.0	0.0	0.9	0.0	11.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.1	55.5	0.0	0.0	17.7	0.0	56.3
1st-Term Q (Q1), veh/ln	0.0	4.3	3.4	0.0	0.0	3.6	0.0	6.4
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.4	0.0	0.0	0.2	0.0	1.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.5	3.7	0.0	0.0	3.9	0.0	7.4
%ile Storage Ratio (RQ%)	0.00	0.10	0.15	0.00	0.00	0.98	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	34.0
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2025
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	68	523	97	209	464	113	130	219	360	181	213	45
Future Volume (veh/h)	68	523	97	209	464	113	130	219	360	181	213	45
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No				No				No			
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	74	568	105	227	504	123	141	238	391	197	232	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	93	1300	236	269	1026	249	199	481	785	226	497	105
HCM 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
Prop Arrive On Green	0.06	0.30	0.30	0.12	0.36	0.36	0.06	0.26	0.26	0.14	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	63.1	31.0	32.5	61.7	28.6	28.8	53.1	36.8	12.2	68.7	0.0	30.3
Ln Grp LOS	E	C	C	E	C	C	D	D	B	E		C
Approach Vol, veh/h	747				854				770		478	
Approach Delay, s/veh	34.6				37.5				27.3		46.1	
Approach LOS	C				D				C		D	
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	2	1	3	4	5	6	7	8				
Case No	3.0	2.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	31.9	19.3	17.4	36.3	11.5	39.8	10.9	42.9				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	27.0	16.5	14.8	27.1	9.2	34.3	10.6	31.3				
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.1				
Max Q Clear (g_c+I1), s	13.4	14.4	12.4	13.3	6.6	14.9	6.7	16.6				
Green Ext Time (g_e), s	2.1	0.1	0.2	2.3	0.1	0.9	0.0	2.0				
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	0.98	1.00	0.88	1.00				
Prob of Max Out (p_x)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00				
Left-Turn Movement Data												
Assigned Mvmt			1	3			5	7				
Mvmt Sat Flow, veh/h			1641	2250			3183	1641				
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	1870			4343			1497			2835		
Right-Turn Movement Data												
Assigned Mvmt	12				14				16		18	
Mvmt Sat Flow, veh/h	2086				789				316		688	
Left Lane Group Data												
Assigned Mvmt	0	1	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2025
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	197	227	0	141	0	74	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	12.4	10.4	0.0	4.6	0.0	4.7	0.0
Cycle Q Clear Time (g_c), s	0.0	12.4	10.4	0.0	4.6	0.0	4.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	226	269	0	199	0	93	0
V/C Ratio (X)	0.00	0.87	0.85	0.00	0.71	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	44.4	45.3	0.0	48.3	0.0	48.9	0.0
Incr Delay (d2), s/veh	0.0	24.3	16.4	0.0	4.8	0.0	14.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	68.7	61.7	0.0	53.1	0.0	63.1	0.0
1st-Term Q (Q1), veh/ln	0.0	4.7	5.5	0.0	1.7	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.5	1.2	0.0	0.1	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.2	6.7	0.0	1.9	0.0	2.2	0.0
%ile Storage Ratio (RQ%)	0.00	1.59	1.42	0.00	0.05	0.00	0.37	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	238	0	0	443	0	0	0	315
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	11.4	0.0	0.0	11.0	0.0	0.0	0.0	14.4
Cycle Q Clear Time (g_c), s	11.4	0.0	0.0	11.0	0.0	0.0	0.0	14.4
Lane Grp Cap (c), veh/h	481	0	0	1019	0	0	0	643
V/C Ratio (X)	0.49	0.00	0.00	0.43	0.00	0.00	0.00	0.49
Avail Cap (c_a), veh/h	481	0	0	1019	0	0	0	643
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	33.2	0.0	0.0	29.6	0.0	0.0	0.0	26.0
Incr Delay (d2), s/veh	3.6	0.0	0.0	1.4	0.0	0.0	0.0	2.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	36.8	0.0	0.0	31.0	0.0	0.0	0.0	28.6
1st-Term Q (Q1), veh/ln	4.8	0.0	0.0	4.2	0.0	0.0	0.0	5.6

HCM 7th Signalized Intersection Capacity Analysis

PM 2025

11/22/2024

1: Spreckels Ave/Cottage Ave & Yosemite Ave

2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.3	0.0	0.0	4.4	0.0	0.0	0.0	6.1
%ile Storage Ratio (RQ%)	0.15	0.00	0.00	0.06	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	391	0	0	230	0	281	0	312
Grp Sat Flow (s), veh/h/ln	2086	0	0	1728	0	1813	0	1746
Q Serve Time (g_s), s	8.4	0.0	0.0	11.3	0.0	12.9	0.0	14.6
Cycle Q Clear Time (g_c), s	8.4	0.0	0.0	11.3	0.0	12.9	0.0	14.6
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.46	0.00	0.17	0.00	0.39
Lane Grp Cap (c), veh/h	785	0	0	517	0	602	0	632
V/C Ratio (X)	0.50	0.00	0.00	0.44	0.00	0.47	0.00	0.49
Avail Cap (c_a), veh/h	785	0	0	517	0	602	0	632
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	9.9	0.0	0.0	29.7	0.0	27.7	0.0	26.0
Incr Delay (d2), s/veh	2.3	0.0	0.0	2.8	0.0	2.6	0.0	2.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.2	0.0	0.0	32.5	0.0	30.3	0.0	28.8
1st-Term Q (Q1), veh/ln	4.0	0.0	0.0	4.4	0.0	5.1	0.0	5.5
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.4	0.0	0.4	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.5	0.0	0.0	4.7	0.0	5.6	0.0	6.0
%ile Storage Ratio (RQ%)	0.76	0.00	0.00	0.06	0.00	0.10	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	35.4
HCM 7th LOS	D

Intersection						
Int Delay, s/veh	4.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	103	79	69	603	419	86
Future Vol, veh/h	103	79	69	603	419	86
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	112	86	75	655	455	93

Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	980	274	549	0	-	0
Stage 1	502	-	-	-	-	-
Stage 2	478	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	247	723	1017	-	-	-
Stage 1	573	-	-	-	-	-
Stage 2	590	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	225	723	1017	-	-	-
Mov Cap-2 Maneuver	225	-	-	-	-	-
Stage 1	521	-	-	-	-	-
Stage 2	590	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	24.96	1.49	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	370	-	225	723	-	-
HCM Lane V/C Ratio	0.074	-	0.498	0.119	-	-
HCM Control Delay (s/veh)	8.8	0.6	35.9	10.6	-	-
HCM Lane LOS	A	A	E	B	-	-
HCM 95th %tile Q(veh)	0.2	-	2.5	0.4	-	-

Intersection						
Int Delay, s/veh	15					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	167	33	623	280	38	485
Future Vol, veh/h	167	33	623	280	38	485
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	182	36	677	304	41	527
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1176	491	0	0	982	0
Stage 1	829	-	-	-	-	-
Stage 2	346	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	184	523	-	-	699	-
Stage 1	389	-	-	-	-	-
Stage 2	688	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 172	523	-	-	699	-
Mov Cap-2 Maneuver	~ 172	-	-	-	-	-
Stage 1	389	-	-	-	-	-
Stage 2	640	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/veh	18.73	0		1.34		
HCM LOS	F					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	172	523	262	-
HCM Lane V/C Ratio	-	-	1.058	0.069	0.059	-
HCM Control Delay (s/veh)	-	-	139.7	12.4	10.5	0.6
HCM Lane LOS	-	-	F	B	B	A
HCM 95th %tile Q(veh)	-	-	8.9	0.2	0.2	-
Notes						
~: Volume exceeds capacity		\$: Delay exceeds 300s		+: Computation Not Defined		*: All major volume in platoon

Intersection						
Int Delay, s/veh	1.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	27	60	718	24	29	682
Future Vol, veh/h	27	60	718	24	29	682
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	65	780	26	32	741
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1227	403	0	0	807	0
Stage 1	793	-	-	-	-	-
Stage 2	434	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	171	597	-	-	814	-
Stage 1	406	-	-	-	-	-
Stage 2	621	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	162	597	-	-	814	-
Mov Cap-2 Maneuver	162	-	-	-	-	-
Stage 1	406	-	-	-	-	-
Stage 2	591	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v18.06		0		0.81		
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT	
Capacity (veh/h)	-	-	162 597	147	-	
HCM Lane V/C Ratio	-	-	0.181 0.109	0.039	-	
HCM Control Delay (s/veh)	-	-	32 11.8	9.6	0.4	
HCM Lane LOS	-	-	D B	A	A	
HCM 95th %tile Q(veh)	-	-	0.6 0.4	0.1	-	

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2025
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	66	107	125	48	110	130	139	538	78	152	431	54
Future Volume (veh/h)	66	107	125	48	110	130	139	538	78	152	431	54
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No				No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	72	116	136	52	120	141	151	585	85	165	468	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes				Yes				Yes			
Cap, veh/h	90	194	173	196	136	160	180	1628	236	223	1536	193
HCM 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
Prop Arrive On Green	0.06	0.11	0.11	0.12	0.17	0.17	0.11	0.52	0.52	0.07	0.48	0.48
Unsig. Movement Delay												
Ln Grp Delay, s/veh	65.8	49.6	55.4	44.7	0.0	56.8	59.9	16.5	16.5	55.3	18.1	18.1
Ln Grp LOS	E	D	E	D		E	E	B	B	E	B	B
Approach Vol, veh/h	324				313				821			
Approach Delay, s/veh	55.7				54.8				24.5			
Approach LOS	E				D				C			
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	12.6	62.4	16.9	18.1	16.9	58.1	11.0	24.0				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	7.6	14.2	11.2	5.2	11.9	11.9	6.8	18.4				
Green Ext Time (g_e), s	0.2	2.4	0.8	0.0	0.2	1.7	0.1	0.7				
Prob of Phs Call (p_c)	0.99	1.00	1.00	0.80	0.99	1.00	0.89	1.00				
Prob of Max Out (p_x)	1.00	0.00	0.00	0.74	0.08	0.00	0.77	0.02				
Left-Turn Movement Data												
Assigned Mvmt	1			3			5			7		
Mvmt Sat Flow, veh/h	3183			1641			1641			1641		
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	3114			1777			3177			784		
Right-Turn Movement Data												
Assigned Mvmt	12			14			16			18		
Mvmt Sat Flow, veh/h	451			1585			399			921		
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2025
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		
Lanes in Grp	2	0	0	1	1	0	1	0
Grp Vol (v), veh/h	165	0	0	52	151	0	72	0
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0
Q Serve Time (g_s), s	5.6	0.0	0.0	3.2	9.9	0.0	4.8	0.0
Cycle Q Clear Time (g_c), s	5.6	0.0	0.0	3.2	9.9	0.0	4.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	223	0	0	196	180	0	90	0
V/C Ratio (X)	0.74	0.00	0.00	0.26	0.84	0.00	0.80	0.00
Avail Cap (c_a), veh/h	321	0	0	196	285	0	166	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	50.2	0.0	0.0	44.0	48.0	0.0	51.4	0.0
Incr Delay (d2), s/veh	5.2	0.0	0.0	0.7	11.9	0.0	14.5	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	55.3	0.0	0.0	44.7	59.9	0.0	65.8	0.0
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.2	3.9	0.0	1.9	0.0
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.6	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.3	0.0	0.0	1.3	4.5	0.0	2.2	0.0
%ile Storage Ratio (RQ%)	0.29	0.00	0.00	0.16	0.57	0.00	0.28	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment	T			T				
Lanes in Grp	0	1	1	0	0	1	0	0
Grp Vol (v), veh/h	0	333	116	0	0	261	0	0
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0
Q Serve Time (g_s), s	0.0	12.1	6.8	0.0	0.0	9.8	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	12.1	6.8	0.0	0.0	9.8	0.0	0.0
Lane Grp Cap (c), veh/h	0	929	194	0	0	859	0	0
V/C Ratio (X)	0.00	0.36	0.60	0.00	0.00	0.30	0.00	0.00
Avail Cap (c_a), veh/h	0	929	496	0	0	859	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	15.4	46.7	0.0	0.0	17.2	0.0	0.0
Incr Delay (d2), s/veh	0.0	1.1	2.9	0.0	0.0	0.9	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.5	49.6	0.0	0.0	18.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	4.3	2.9	0.0	0.0	3.6	0.0	0.0

HCM 7th Signalized Intersection Capacity Analysis 5: Spreckels Ave & Moffat Blvd

PM 2025
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.3	0.2	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.6	3.0	0.0	0.0	3.8	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.10	0.12	0.00	0.00	0.97	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	337	136	0	0	266	0	261
Grp Sat Flow (s), veh/h/ln	0	1789	1585	0	0	1799	0	1705
Q Serve Time (g_s), s	0.0	12.2	9.2	0.0	0.0	9.9	0.0	16.4
Cycle Q Clear Time (g_c), s	0.0	12.2	9.2	0.0	0.0	9.9	0.0	16.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.25	1.00	0.00	0.00	0.22	0.00	0.54
Lane Grp Cap (c), veh/h	0	935	173	0	0	870	0	296
V/C Ratio (X)	0.00	0.36	0.79	0.00	0.00	0.31	0.00	0.88
Avail Cap (c_a), veh/h	0	935	442	0	0	870	0	451
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	15.4	47.7	0.0	0.0	17.2	0.0	44.3
Incr Delay (d2), s/veh	0.0	1.1	7.7	0.0	0.0	0.9	0.0	12.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.5	55.4	0.0	0.0	18.1	0.0	56.8
1st-Term Q (Q1), veh/ln	0.0	4.4	3.4	0.0	0.0	3.7	0.0	6.5
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.4	0.0	0.0	0.2	0.0	1.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.7	3.8	0.0	0.0	3.9	0.0	7.6
%ile Storage Ratio (RQ%)	0.00	0.10	0.15	0.00	0.00	0.99	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	34.4
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2025+Project

11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	68	523	98	213	464	113	132	225	367	181	215	45
Future Volume (veh/h)	68	523	98	213	464	113	132	225	367	181	215	45
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No		No				No				No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	74	568	107	232	504	123	143	245	399	197	234	49
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes				Yes				Yes	Yes		
Cap, veh/h	93	1286	238	273	1026	249	201	481	790	226	497	104
HCM 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
Prop Arrive On Green	0.06	0.30	0.30	0.12	0.36	0.36	0.06	0.26	0.26	0.14	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	63.1	31.2	32.8	62.3	28.6	28.8	53.3	37.2	12.2	68.7	0.0	30.4
Ln Grp LOS	E	C	C	E	C	C	D	D	B	E		C
Approach Vol, veh/h	749				859				787			
Approach Delay, s/veh	34.8				37.8				27.4			
Approach LOS	C				D				C			
Timer:	1		2	3	4	5	6	7	8			
Assigned Phs	2		1	3	4	5	6	7	8			
Case No	3.0		2.0	2.0	4.0	2.0	4.0	2.0	4.0			
Phs Duration (G+Y+Rc), s	31.9		19.3	17.7	36.1	11.5	39.7	10.9	42.9			
Change Period (Y+Rc), s	4.9		4.9	4.9	4.9	4.9	4.9	4.9	4.9			
Max Green (Gmax), s	27.0		16.5	14.8	27.1	9.2	34.3	10.6	31.3			
Max Allow Headway (MAH), s	4.2		4.1	4.1	4.0	4.1	4.1	4.1	4.1			
Max Q Clear (g_c+I1), s	13.8		14.4	12.6	13.4	6.6	15.0	6.7	16.6			
Green Ext Time (g_e), s	2.2		0.1	0.2	2.3	0.1	0.9	0.0	2.0			
Prob of Phs Call (p_c)	1.00		1.00	1.00	1.00	0.98	1.00	0.88	1.00			
Prob of Max Out (p_x)	0.00		1.00	1.00	0.00	1.00	0.00	1.00	0.00			
Left-Turn Movement Data												
Assigned Mvmt			1	3			5	7				
Mvmt Sat Flow, veh/h			1641	2250			3183	1641				
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	1870			4329			1500			2835		
Right-Turn Movement Data												
Assigned Mvmt	12				14				16			
Mvmt Sat Flow, veh/h	2086				801				314			
Left Lane Group Data												
Assigned Mvmt	0		1	3	0	5	0	7	0			

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2025+Project
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	197	232	0	143	0	74	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	12.4	10.6	0.0	4.6	0.0	4.7	0.0
Cycle Q Clear Time (g_c), s	0.0	12.4	10.6	0.0	4.6	0.0	4.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	226	273	0	201	0	93	0
V/C Ratio (X)	0.00	0.87	0.85	0.00	0.71	0.00	0.80	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	44.4	45.2	0.0	48.2	0.0	48.9	0.0
Incr Delay (d2), s/veh	0.0	24.3	17.1	0.0	5.0	0.0	14.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	68.7	62.3	0.0	53.3	0.0	63.1	0.0
1st-Term Q (Q1), veh/ln	0.0	4.7	5.6	0.0	1.7	0.0	1.8	0.0
2nd-Term Q (Q2), veh/ln	0.0	1.5	1.3	0.0	0.1	0.0	0.4	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	6.2	6.9	0.0	1.9	0.0	2.2	0.0
%ile Storage Ratio (RQ%)	0.00	1.59	1.46	0.00	0.05	0.00	0.37	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	245	0	0	444	0	0	0	315
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	11.8	0.0	0.0	11.1	0.0	0.0	0.0	14.4
Cycle Q Clear Time (g_c), s	11.8	0.0	0.0	11.1	0.0	0.0	0.0	14.4
Lane Grp Cap (c), veh/h	481	0	0	1012	0	0	0	643
V/C Ratio (X)	0.51	0.00	0.00	0.44	0.00	0.00	0.00	0.49
Avail Cap (c_a), veh/h	481	0	0	1012	0	0	0	643
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	33.3	0.0	0.0	29.8	0.0	0.0	0.0	26.0
Incr Delay (d2), s/veh	3.8	0.0	0.0	1.4	0.0	0.0	0.0	2.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	37.2	0.0	0.0	31.2	0.0	0.0	0.0	28.6
1st-Term Q (Q1), veh/ln	5.0	0.0	0.0	4.2	0.0	0.0	0.0	5.6

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

PM 2025+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	5.5	0.0	0.0	4.4	0.0	0.0	0.0	6.1
%ile Storage Ratio (RQ%)	0.16	0.00	0.00	0.06	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	399	0	0	231	0	283	0	312
Grp Sat Flow (s), veh/h/ln	2086	0	0	1726	0	1814	0	1746
Q Serve Time (g_s), s	8.5	0.0	0.0	11.4	0.0	13.0	0.0	14.6
Cycle Q Clear Time (g_c), s	8.5	0.0	0.0	11.4	0.0	13.0	0.0	14.6
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.46	0.00	0.17	0.00	0.39
Lane Grp Cap (c), veh/h	790	0	0	513	0	601	0	632
V/C Ratio (X)	0.51	0.00	0.00	0.45	0.00	0.47	0.00	0.49
Avail Cap (c_a), veh/h	790	0	0	513	0	601	0	632
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	9.9	0.0	0.0	29.9	0.0	27.8	0.0	26.0
Incr Delay (d2), s/veh	2.3	0.0	0.0	2.8	0.0	2.6	0.0	2.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	12.2	0.0	0.0	32.8	0.0	30.4	0.0	28.8
1st-Term Q (Q1), veh/ln	4.1	0.0	0.0	4.4	0.0	5.2	0.0	5.5
2nd-Term Q (Q2), veh/ln	0.5	0.0	0.0	0.4	0.0	0.4	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	4.6	0.0	0.0	4.8	0.0	5.6	0.0	6.0
%ile Storage Ratio (RQ%)	0.77	0.00	0.00	0.06	0.00	0.10	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	35.6
HCM 7th LOS	D

Intersection						
Int Delay, s/veh	4.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	103	79	69	618	426	86
Future Vol, veh/h	103	79	69	618	426	86
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	112	86	75	672	463	93

Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	996	278	557	0	-	0
Stage 1	510	-	-	-	-	-
Stage 2	486	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	241	719	1010	-	-	-
Stage 1	568	-	-	-	-	-
Stage 2	584	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	219	719	1010	-	-	-
Mov Cap-2 Maneuver	219	-	-	-	-	-
Stage 1	516	-	-	-	-	-
Stage 2	584	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	25.8	1.48	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	362	-	219	719	-	-
HCM Lane V/C Ratio	0.074	-	0.511	0.119	-	-
HCM Control Delay (s/veh)	8.8	0.7	37.4	10.7	-	-
HCM Lane LOS	A	A	E	B	-	-
HCM 95th %tile Q(veh)	0.2	-	2.6	0.4	-	-

Intersection						
Int Delay, s/veh	16.1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	167	33	638	280	38	492
Future Vol, veh/h	167	33	638	280	38	492
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	182	36	693	304	41	535
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1196	499	0	0	998	0
Stage 1	846	-	-	-	-	-
Stage 2	350	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	~ 179	517	-	-	689	-
Stage 1	381	-	-	-	-	-
Stage 2	684	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	~ 166	517	-	-	689	-
Mov Cap-2 Maneuver	~ 166	-	-	-	-	-
Stage 1	381	-	-	-	-	-
Stage 2	636	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/veh	29.33	0		1.35		
HCM LOS	F					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	166	517	258	-
HCM Lane V/C Ratio	-	-	1.092	0.069	0.06	-
HCM Control Delay (s/veh)	-	-	152.4	12.5	10.6	0.6
HCM Lane LOS	-	-	F	B	B	A
HCM 95th %tile Q(veh)	-	-	9.3	0.2	0.2	-
Notes						
~: Volume exceeds capacity		\$: Delay exceeds 300s		+: Computation Not Defined		*: All major volume in platoon

Intersection						
Int Delay, s/veh	1.4					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	27	60	728	24	29	702
Future Vol, veh/h	27	60	728	24	29	702
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	29	65	791	26	32	763
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	1249	409	0	0	817	0
Stage 1	804	-	-	-	-	-
Stage 2	445	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	165	592	-	-	806	-
Stage 1	401	-	-	-	-	-
Stage 2	613	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	157	592	-	-	806	-
Mov Cap-2 Maneuver	157	-	-	-	-	-
Stage 1	401	-	-	-	-	-
Stage 2	583	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v	18.45	0		0.81		
HCM LOS	C					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	157	592	143	-
HCM Lane V/C Ratio	-	-	0.187	0.11	0.039	-
HCM Control Delay (s/veh)	-	-	33.1	11.8	9.6	0.4
HCM Lane LOS	-	-	D	B	A	A
HCM 95th %tile Q(veh)	-	-	0.7	0.4	0.1	-

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2025+Project
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	67	107	125	48	110	132	139	545	78	156	445	56
Future Volume (veh/h)	67	107	125	48	110	132	139	545	78	156	445	56
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No				No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	73	116	136	52	120	143	151	592	85	170	484	61
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	92	194	173	200	136	162	180	1620	232	228	1529	192
HCM 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
Prop Arrive On Green	0.06	0.11	0.11	0.12	0.17	0.17	0.11	0.52	0.52	0.07	0.48	0.48
Unsig. Movement Delay												
Ln Grp Delay, s/veh	65.6	49.6	55.4	44.5	0.0	56.9	59.9	16.8	16.8	55.8	18.4	18.4
Ln Grp LOS	E	D	E	D		E	E	B	B	E	B	B
Approach Vol, veh/h	325			315				828			715	
Approach Delay, s/veh	55.6			54.9				24.7			27.3	
Approach LOS	E			D				C			C	
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	12.8	62.0	16.9	18.3	16.9	57.9	11.0	24.1				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	7.8	14.4	11.2	5.2	11.9	12.3	6.8	18.6				
Green Ext Time (g_e), s	0.2	2.5	0.8	0.0	0.2	1.8	0.1	0.7				
Prob of Phs Call (p_c)	0.99	1.00	1.00	0.80	0.99	1.00	0.89	1.00				
Prob of Max Out (p_x)	1.00	0.00	0.00	0.74	0.08	0.00	0.82	0.02				
Left-Turn Movement Data												
Assigned Mvmt	1			3			5			7		
Mvmt Sat Flow, veh/h	3183			1641			1641			1641		
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	3120			1777			3177			777		
Right-Turn Movement Data												
Assigned Mvmt	12			14			16			18		
Mvmt Sat Flow, veh/h	447			1585			399			926		
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

PM 2025+Project
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	2	0	0	1	1	0	1	0	
Grp Vol (v), veh/h	170	0	0	52	151	0	73	0	
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0	
Q Serve Time (g_s), s	5.8	0.0	0.0	3.2	9.9	0.0	4.8	0.0	
Cycle Q Clear Time (g_c), s	5.8	0.0	0.0	3.2	9.9	0.0	4.8	0.0	
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0	
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0	
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
Lane Grp Cap (c), veh/h	228	0	0	200	180	0	92	0	
V/C Ratio (X)	0.74	0.00	0.00	0.26	0.84	0.00	0.80	0.00	
Avail Cap (c_a), veh/h	321	0	0	200	285	0	166	0	
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d1), s/veh	50.1	0.0	0.0	43.8	48.0	0.0	51.3	0.0	
Incr Delay (d2), s/veh	5.7	0.0	0.0	0.7	11.9	0.0	14.3	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	55.8	0.0	0.0	44.5	59.9	0.0	65.6	0.0	
1st-Term Q (Q1), veh/ln	2.2	0.0	0.0	1.2	3.9	0.0	1.9	0.0	
2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.6	0.0	0.4	0.0	
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
%ile Back of Q (50%), veh/ln	2.4	0.0	0.0	1.3	4.5	0.0	2.3	0.0	
%ile Storage Ratio (RQ%)	0.30	0.00	0.00	0.16	0.57	0.00	0.29	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Middle Lane Group Data									
Assigned Mvmt	0	2	4	0	0	6	0	8	
Lane Assignment	T						T		
Lanes in Grp	0	1	1	0	0	1	0	0	
Grp Vol (v), veh/h	0	337	116	0	0	270	0	0	
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0	
Q Serve Time (g_s), s	0.0	12.4	6.8	0.0	0.0	10.2	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	12.4	6.8	0.0	0.0	10.2	0.0	0.0	
Lane Grp Cap (c), veh/h	0	923	194	0	0	855	0	0	
V/C Ratio (X)	0.00	0.36	0.60	0.00	0.00	0.32	0.00	0.00	
Avail Cap (c_a), veh/h	0	923	496	0	0	855	0	0	
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	15.7	46.7	0.0	0.0	17.4	0.0	0.0	
Incr Delay (d2), s/veh	0.0	1.1	2.9	0.0	0.0	1.0	0.0	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	16.8	49.6	0.0	0.0	18.4	0.0	0.0	
1st-Term Q (Q1), veh/ln	0.0	4.4	2.9	0.0	0.0	3.8	0.0	0.0	

HCM 7th Signalized Intersection Capacity Analysis 5: Spreckels Ave & Moffat Blvd

PM 2025+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.3	0.2	0.0	0.0	0.2	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.7	3.0	0.0	0.0	4.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.11	0.12	0.00	0.00	1.02	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	340	136	0	0	275	0	263
Grp Sat Flow (s), veh/h/ln	0	1790	1585	0	0	1799	0	1704
Q Serve Time (g_s), s	0.0	12.4	9.2	0.0	0.0	10.3	0.0	16.6
Cycle Q Clear Time (g_c), s	0.0	12.4	9.2	0.0	0.0	10.3	0.0	16.6
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.25	1.00	0.00	0.00	0.22	0.00	0.54
Lane Grp Cap (c), veh/h	0	929	173	0	0	866	0	298
V/C Ratio (X)	0.00	0.37	0.79	0.00	0.00	0.32	0.00	0.88
Avail Cap (c_a), veh/h	0	929	442	0	0	866	0	451
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	15.7	47.7	0.0	0.0	17.5	0.0	44.3
Incr Delay (d2), s/veh	0.0	1.1	7.7	0.0	0.0	1.0	0.0	12.7
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	16.8	55.4	0.0	0.0	18.4	0.0	56.9
1st-Term Q (Q1), veh/ln	0.0	4.5	3.4	0.0	0.0	3.9	0.0	6.6
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.4	0.0	0.0	0.2	0.0	1.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.8	3.8	0.0	0.0	4.1	0.0	7.6
%ile Storage Ratio (RQ%)	0.00	0.11	0.15	0.00	0.00	1.04	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	34.5
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2024
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	260	32	142	318	48	37	102	136	102	114	25
Future Volume (veh/h)	23	260	32	142	318	48	37	102	136	102	114	25
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	25	283	35	154	346	52	40	111	148	111	124	27
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	32	1724	208	196	1367	204	83	481	718	157	486	106
HCM 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
Prop Arrive On Green	0.02	0.37	0.37	0.09	0.44	0.44	0.03	0.26	0.26	0.10	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	82.5	22.2	22.6	53.8	19.2	19.3	54.6	31.9	11.8	51.8	0.0	27.0
Ln Grp LOS	F	C	C	D	B	B	D	C	B	D		C
Approach Vol, veh/h	343			552			299			262		
Approach Delay, s/veh	26.7			28.9			25.0			37.5		
Approach LOS	C			C			C			D		
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	2	1	3	4	5	6	7	8				
Case No	3.0	2.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	31.9	15.0	14.0	44.1	7.7	39.2	7.0	51.2				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	27.0	16.5	14.8	27.1	9.2	34.3	10.6	31.3				
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.0				
Max Q Clear (g_c+I1), s	6.9	8.9	9.0	6.4	3.3	8.4	3.6	9.4				
Green Ext Time (g_e), s	0.8	0.2	0.2	1.1	0.0	0.5	0.0	1.3				
Prob of Phs Call (p_c)	1.00	0.96	0.99	1.00	0.69	1.00	0.52	1.00				
Prob of Max Out (p_x)	0.00	0.04	0.26	0.00	0.07	0.00	0.01	0.00				
Left-Turn Movement Data												
Assigned Mvmt			1	3			5	7				
Mvmt Sat Flow, veh/h			1641	2250			3183	1641				
Through Movement Data												
Assigned Mvmt	2			4			6		8			
Mvmt Sat Flow, veh/h	1870			4617			1488		3102			
Right-Turn Movement Data												
Assigned Mvmt	12				14			16		18		
Mvmt Sat Flow, veh/h	2086				557			324		462		
Left Lane Group Data												
Assigned Mvmt	0	1	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2024
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	111	154	0	40	0	25	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	6.9	7.0	0.0	1.3	0.0	1.6	0.0
Cycle Q Clear Time (g_c), s	0.0	6.9	7.0	0.0	1.3	0.0	1.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	157	196	0	83	0	32	0
V/C Ratio (X)	0.00	0.71	0.79	0.00	0.48	0.00	0.77	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	46.0	47.0	0.0	50.4	0.0	51.2	0.0
Incr Delay (d2), s/veh	0.0	5.7	6.8	0.0	4.2	0.0	31.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.8	53.8	0.0	54.6	0.0	82.5	0.0
1st-Term Q (Q1), veh/ln	0.0	2.7	3.7	0.0	0.5	0.0	0.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.4	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.9	4.1	0.0	0.5	0.0	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.74	0.87	0.00	0.02	0.00	0.15	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	111	0	0	207	0	0	0	197
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	4.9	0.0	0.0	4.3	0.0	0.0	0.0	7.3
Cycle Q Clear Time (g_c), s	4.9	0.0	0.0	4.3	0.0	0.0	0.0	7.3
Lane Grp Cap (c), veh/h	481	0	0	1271	0	0	0	783
V/C Ratio (X)	0.23	0.00	0.00	0.16	0.00	0.00	0.00	0.25
Avail Cap (c_a), veh/h	481	0	0	1271	0	0	0	783
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	30.8	0.0	0.0	22.0	0.0	0.0	0.0	18.5
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.3	0.0	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	31.9	0.0	0.0	22.2	0.0	0.0	0.0	19.2
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.6	0.0	0.0	0.0	2.7

HCM 7th Signalized Intersection Capacity Analysis

AM 2024

1: Spreckels Ave/Cottage Ave & Yosemite Ave

11/22/2024

2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.2	0.0	0.0	1.6	0.0	0.0	0.0	2.9
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	148	0	0	111	0	151	0	201
Grp Sat Flow (s), veh/h/ln	2086	0	0	1770	0	1812	0	1787
Q Serve Time (g_s), s	3.4	0.0	0.0	4.4	0.0	6.4	0.0	7.4
Cycle Q Clear Time (g_c), s	3.4	0.0	0.0	4.4	0.0	6.4	0.0	7.4
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.31	0.00	0.18	0.00	0.26
Lane Grp Cap (c), veh/h	718	0	0	661	0	592	0	788
V/C Ratio (X)	0.21	0.00	0.00	0.17	0.00	0.26	0.00	0.26
Avail Cap (c_a), veh/h	718	0	0	661	0	592	0	788
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	11.1	0.0	0.0	22.0	0.0	26.0	0.0	18.5
Incr Delay (d2), s/veh	0.6	0.0	0.0	0.6	0.0	1.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	11.8	0.0	0.0	22.6	0.0	27.0	0.0	19.3
1st-Term Q (Q1), veh/ln	1.7	0.0	0.0	1.7	0.0	2.6	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.2	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.8	0.0	0.0	1.8	0.0	2.7	0.0	3.0
%ile Storage Ratio (RQ%)	0.31	0.00	0.00	0.02	0.00	0.05	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	29.1
HCM 7th LOS	C

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	24	4	1	145	118	10
Future Vol, veh/h	24	4	1	145	118	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	4	1	158	128	11

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	215	70	139	0	-	0
Stage 1	134	-	-	-	-	-
Stage 2	81	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	754	979	1442	-	-	-
Stage 1	878	-	-	-	-	-
Stage 2	933	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	753	979	1442	-	-	-
Mov Cap-2 Maneuver	753	-	-	-	-	-
Stage 1	878	-	-	-	-	-
Stage 2	933	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.77	0.06	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	25	-	753	979	-	-
HCM Lane V/C Ratio	0.001	-	0.035	0.004	-	-
HCM Control Delay (s/veh)	7.5	0	9.9	8.7	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	0	-	-

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	24	4	145	48	8	118
Future Vol, veh/h	24	4	145	48	8	118
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	4	158	52	9	128
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	265	105	0	0	210	0
Stage 1	184	-	-	-	-	-
Stage 2	82	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	701	929	-	-	1358	-
Stage 1	829	-	-	-	-	-
Stage 2	932	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	697	929	-	-	1358	-
Mov Cap-2 Maneuver	697	-	-	-	-	-
Stage 1	829	-	-	-	-	-
Stage 2	926	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v10.16		0	0.53			
HCM LOS	B					
Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT		
Capacity (veh/h)	-	- 697 929	229	-		
HCM Lane V/C Ratio	-	- 0.037 0.005	0.006	-		
HCM Control Delay (s/veh)	-	- 10.4 8.9	7.7	0		
HCM Lane LOS	-	- B A	A	A		
HCM 95th %tile Q(veh)	-	- 0.1 0	0	-		

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	15	186	22	16	114
Future Vol, veh/h	10	15	186	22	16	114
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	16	202	24	17	124
Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	311	113	0	0	226	0
Stage 1	214	-	-	-	-	-
Stage 2	97	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	657	918	-	-	1340	-
Stage 1	801	-	-	-	-	-
Stage 2	916	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	648	918	-	-	1340	-
Mov Cap-2 Maneuver	648	-	-	-	-	-
Stage 1	801	-	-	-	-	-
Stage 2	904	-	-	-	-	-
Approach	WB	NB	SB			
HCM Control Delay, s/v	9.65	0	1.02			
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT	
Capacity (veh/h)	-	-	648 918	443	-	
HCM Lane V/C Ratio	-	-	0.017 0.018	0.013	-	
HCM Control Delay (s/veh)	-	-	10.6 9	7.7	0.1	
HCM Lane LOS	-	-	B A	A	A	
HCM 95th %tile Q(veh)	-	-	0.1 0.1	0	-	

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2024
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	34	72	42	87	86	127	312	40	33	148	20
Future Volume (veh/h)	22	34	72	42	87	86	127	312	40	33	148	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No				No				No		No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	24	37	78	46	95	93	138	339	43	36	161	22
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes				Yes				Yes			
Cap, veh/h	31	123	110	130	113	110	166	2060	259	77	1799	242
HCM 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
Prop Arrive On Green	0.02	0.07	0.07	0.08	0.13	0.13	0.10	0.65	0.65	0.02	0.57	0.57
Unsig. Movement Delay												
Ln Grp Delay, s/veh	86.3	50.0	58.2	49.6	0.0	55.1	58.6	7.9	7.9	57.3	10.8	10.8
Ln Grp LOS	F	D	E	D		E	E	A	A	E	B	B
Approach Vol, veh/h	139				234				520		219	
Approach Delay, s/veh	60.8				54.0				21.4		18.4	
Approach LOS	E				D				C		B	
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	7.6	76.3	12.5	13.6	16.0	67.8	7.0	19.2				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	3.2	6.7	7.3	4.9	11.1	4.6	3.6	13.8				
Green Ext Time (g_e), s	0.0	1.3	0.3	0.0	0.2	0.6	0.0	0.5				
Prob of Phs Call (p_c)	0.67	1.00	1.00	0.75	0.99	1.00	0.52	1.00				
Prob of Max Out (p_x)	0.00	0.00	0.00	0.53	0.04	0.00	0.01	0.00				
Left-Turn Movement Data												
Assigned Mvmt	1				3	5	7					
Mvmt Sat Flow, veh/h	3183				1641	1641	1641					
Through Movement Data												
Assigned Mvmt	2		4				6	8				
Mvmt Sat Flow, veh/h	3176		1777				3147	868				
Right-Turn Movement Data												
Assigned Mvmt	12		14				16	18				
Mvmt Sat Flow, veh/h	400		1585				424	850				
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2024
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	2	0	0	1	1	0	1	0	
Grp Vol (v), veh/h	36	0	0	46	138	0	24	0	
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0	
Q Serve Time (g_s), s	1.2	0.0	0.0	2.9	9.1	0.0	1.6	0.0	
Cycle Q Clear Time (g_c), s	1.2	0.0	0.0	2.9	9.1	0.0	1.6	0.0	
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0	
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0	
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
Lane Grp Cap (c), veh/h	77	0	0	130	166	0	31	0	
V/C Ratio (X)	0.47	0.00	0.00	0.35	0.83	0.00	0.77	0.00	
Avail Cap (c_a), veh/h	321	0	0	142	285	0	166	0	
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
Uniform Delay (d1), s/veh	53.0	0.0	0.0	48.0	48.5	0.0	53.7	0.0	
Incr Delay (d2), s/veh	4.3	0.0	0.0	1.6	10.1	0.0	32.6	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	57.3	0.0	0.0	49.6	58.6	0.0	86.3	0.0	
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	1.1	3.5	0.0	0.6	0.0	
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.5	0.0	0.3	0.0	
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00	
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	1.2	4.0	0.0	0.9	0.0	
%ile Storage Ratio (RQ%)	0.07	0.00	0.00	0.15	0.51	0.00	0.12	0.00	
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0	
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Middle Lane Group Data									
Assigned Mvmt	0	2	4	0	0	6	0	8	
Lane Assignment		T	T			T			
Lanes in Grp	0	1	1	0	0	1	0	0	
Grp Vol (v), veh/h	0	188	37	0	0	90	0	0	
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0	
Q Serve Time (g_s), s	0.0	4.6	2.2	0.0	0.0	2.5	0.0	0.0	
Cycle Q Clear Time (g_c), s	0.0	4.6	2.2	0.0	0.0	2.5	0.0	0.0	
Lane Grp Cap (c), veh/h	0	1153	123	0	0	1016	0	0	
V/C Ratio (X)	0.00	0.16	0.30	0.00	0.00	0.09	0.00	0.00	
Avail Cap (c_a), veh/h	0	1153	496	0	0	1016	0	0	
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00	
Uniform Delay (d1), s/veh	0.0	7.6	48.6	0.0	0.0	10.6	0.0	0.0	
Incr Delay (d2), s/veh	0.0	0.3	1.3	0.0	0.0	0.2	0.0	0.0	
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Control Delay (d), s/veh	0.0	7.9	50.0	0.0	0.0	10.8	0.0	0.0	
1st-Term Q (Q1), veh/ln	0.0	1.4	0.9	0.0	0.0	0.9	0.0	0.0	

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2024
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.5	1.0	0.0	0.0	0.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.03	0.04	0.00	0.00	0.23	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	194	78	0	0	93	0	188
Grp Sat Flow (s), veh/h/ln	0	1798	1585	0	0	1794	0	1717
Q Serve Time (g_s), s	0.0	4.7	5.3	0.0	0.0	2.6	0.0	11.8
Cycle Q Clear Time (g_c), s	0.0	4.7	5.3	0.0	0.0	2.6	0.0	11.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.22	1.00	0.00	0.00	0.24	0.00	0.49
Lane Grp Cap (c), veh/h	0	1167	110	0	0	1026	0	223
V/C Ratio (X)	0.00	0.17	0.71	0.00	0.00	0.09	0.00	0.84
Avail Cap (c_a), veh/h	0	1167	442	0	0	1026	0	454
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.6	50.1	0.0	0.0	10.6	0.0	46.8
Incr Delay (d2), s/veh	0.0	0.3	8.1	0.0	0.0	0.2	0.0	8.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	7.9	58.2	0.0	0.0	10.8	0.0	55.1
1st-Term Q (Q1), veh/ln	0.0	1.5	2.0	0.0	0.0	0.9	0.0	4.8
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	2.3	0.0	0.0	0.9	0.0	5.3
%ile Storage Ratio (RQ%)	0.00	0.03	0.09	0.00	0.00	0.24	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	32.6
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2024+Project

11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	260	34	149	318	48	38	103	140	102	120	25
Future Volume (veh/h)	23	260	34	149	318	48	38	103	140	102	120	25
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	25	283	37	162	346	52	41	112	152	111	130	27
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	32	1693	216	204	1366	203	85	481	726	158	491	102
HCM 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
Prop Arrive On Green	0.02	0.37	0.37	0.09	0.44	0.44	0.03	0.26	0.26	0.10	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	82.5	22.5	22.9	54.1	19.3	19.3	54.6	31.9	11.6	51.6	0.0	27.1
Ln Grp LOS	F	C	C	D	B	B	D	C	B	D		C
Approach Vol, veh/h	345			560			305			268		
Approach Delay, s/veh	27.0			29.3			24.9			37.3		
Approach LOS	C			C			C			D		
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	2	1	3	4	5	6	7	8				
Case No	3.0	2.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	31.9	15.0	14.4	43.7	7.7	39.2	7.0	51.1				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	27.0	16.5	14.8	27.1	9.2	34.3	10.6	31.3				
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.0				
Max Q Clear (g_c+I1), s	7.0	8.9	9.4	6.5	3.3	8.7	3.6	9.5				
Green Ext Time (g_e), s	0.9	0.2	0.2	1.1	0.0	0.5	0.0	1.3				
Prob of Phs Call (p_c)	1.00	0.96	0.99	1.00	0.70	1.00	0.52	1.00				
Prob of Max Out (p_x)	0.00	0.04	0.36	0.00	0.08	0.00	0.01	0.00				
Left-Turn Movement Data												
Assigned Mvmt	1		3	5		7						
Mvmt Sat Flow, veh/h	1641		2250	3183		1641						
Through Movement Data												
Assigned Mvmt	2		4		6		8					
Mvmt Sat Flow, veh/h	1870		4585		1502		3102					
Right-Turn Movement Data												
Assigned Mvmt	12		14		16		18					
Mvmt Sat Flow, veh/h	2086		584		312		462					
Left Lane Group Data												
Assigned Mvmt	0	1	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2024+Project
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	111	162	0	41	0	25	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	6.9	7.4	0.0	1.3	0.0	1.6	0.0
Cycle Q Clear Time (g_c), s	0.0	6.9	7.4	0.0	1.3	0.0	1.6	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	158	204	0	85	0	32	0
V/C Ratio (X)	0.00	0.70	0.79	0.00	0.48	0.00	0.77	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	46.0	46.8	0.0	50.4	0.0	51.2	0.0
Incr Delay (d2), s/veh	0.0	5.6	7.3	0.0	4.2	0.0	31.3	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	51.6	54.1	0.0	54.6	0.0	82.5	0.0
1st-Term Q (Q1), veh/ln	0.0	2.7	3.9	0.0	0.5	0.0	0.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.2	0.4	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	2.9	4.3	0.0	0.6	0.0	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.74	0.92	0.00	0.02	0.00	0.15	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	112	0	0	208	0	0	0	197
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	5.0	0.0	0.0	4.3	0.0	0.0	0.0	7.3
Cycle Q Clear Time (g_c), s	5.0	0.0	0.0	4.3	0.0	0.0	0.0	7.3
Lane Grp Cap (c), veh/h	481	0	0	1257	0	0	0	782
V/C Ratio (X)	0.23	0.00	0.00	0.17	0.00	0.00	0.00	0.25
Avail Cap (c_a), veh/h	481	0	0	1257	0	0	0	782
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	30.8	0.0	0.0	22.2	0.0	0.0	0.0	18.5
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.3	0.0	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	31.9	0.0	0.0	22.5	0.0	0.0	0.0	19.3
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.6	0.0	0.0	0.0	2.7

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2024+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.3	0.0	0.0	1.6	0.0	0.0	0.0	2.9
%ile Storage Ratio (RQ%)	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	152	0	0	112	0	157	0	201
Grp Sat Flow (s), veh/h/ln	2086	0	0	1765	0	1814	0	1787
Q Serve Time (g_s), s	3.4	0.0	0.0	4.5	0.0	6.7	0.0	7.5
Cycle Q Clear Time (g_c), s	3.4	0.0	0.0	4.5	0.0	6.7	0.0	7.5
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.33	0.00	0.17	0.00	0.26
Lane Grp Cap (c), veh/h	726	0	0	652	0	593	0	787
V/C Ratio (X)	0.21	0.00	0.00	0.17	0.00	0.26	0.00	0.26
Avail Cap (c_a), veh/h	726	0	0	652	0	593	0	787
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	11.0	0.0	0.0	22.3	0.0	26.1	0.0	18.5
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.6	0.0	1.1	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	11.6	0.0	0.0	22.9	0.0	27.1	0.0	19.3
1st-Term Q (Q1), veh/ln	1.7	0.0	0.0	1.7	0.0	2.7	0.0	2.8
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.2	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.9	0.0	0.0	1.8	0.0	2.9	0.0	3.0
%ile Storage Ratio (RQ%)	0.32	0.00	0.00	0.02	0.00	0.05	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	29.3
HCM 7th LOS	C

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	24	4	1	151	133	10
Future Vol, veh/h	24	4	1	151	133	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	4	1	164	145	11

Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	234	78	155	0	-	0
Stage 1	150	-	-	-	-	-
Stage 2	84	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	733	967	1422	-	-	-
Stage 1	862	-	-	-	-	-
Stage 2	929	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	733	967	1422	-	-	-
Mov Cap-2 Maneuver	733	-	-	-	-	-
Stage 1	861	-	-	-	-	-
Stage 2	929	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.9	0.06	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	24	-	733	967	-	-
HCM Lane V/C Ratio	0.001	-	0.036	0.004	-	-
HCM Control Delay (s/veh)	7.5	0	10.1	8.7	-	-
HCM Lane LOS	A	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	0	-	-

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	24	4	151	48	8	133
Future Vol, veh/h	24	4	151	48	8	133
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	26	4	164	52	9	145

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	280	108	0	0	216
Stage 1	190	-	-	-	-
Stage 2	90	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14
Critical Hdwy Stg 1	5.84	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22
Pot Cap-1 Maneuver	687	925	-	-	1351
Stage 1	823	-	-	-	-
Stage 2	924	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	682	925	-	-	1351
Mov Cap-2 Maneuver	682	-	-	-	-
Stage 1	823	-	-	-	-
Stage 2	917	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v10.26		0	0.48
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	682	925	204
HCM Lane V/C Ratio	-	-	0.038	0.005	0.006
HCM Control Delay (s/veh)	-	-	10.5	8.9	7.7
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	0

Intersection

Int Delay, s/veh 1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	15	207	22	16	121
Future Vol, veh/h	10	15	207	22	16	121
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	16	225	24	17	132

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	338	124	0	0	249
Stage 1	237	-	-	-	-
Stage 2	101	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14
Critical Hdwy Stg 1	5.84	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22
Pot Cap-1 Maneuver	632	903	-	-	1314
Stage 1	780	-	-	-	-
Stage 2	912	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	624	903	-	-	1314
Mov Cap-2 Maneuver	624	-	-	-	-
Stage 1	780	-	-	-	-
Stage 2	900	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.79	0	0.98
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	624	903	420
HCM Lane V/C Ratio	-	-	0.017	0.018	0.013
HCM Control Delay (s/veh)	-	-	10.9	9.1	7.8
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0.1	0

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2024+Project
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	34	72	42	87	91	127	326	40	35	152	21
Future Volume (veh/h)	24	34	72	42	87	91	127	326	40	35	152	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No				No				No		No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	26	37	78	46	95	99	138	354	43	38	165	23
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes				Yes				Yes			
Cap, veh/h	33	123	110	138	112	117	166	2054	248	79	1779	244
HCM 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
Prop Arrive On Green	0.02	0.07	0.07	0.08	0.13	0.13	0.10	0.64	0.64	0.02	0.57	0.57
Unsig. Movement Delay												
Ln Grp Delay, s/veh	87.4	50.0	58.2	48.9	0.0	54.9	58.6	8.2	8.2	57.3	11.1	11.1
Ln Grp LOS	F	D	E	D			D	E	A	A	E	B
Approach Vol, veh/h	141				240				535		226	
Approach Delay, s/veh	61.4				53.7				21.2		18.8	
Approach LOS	E				D				C		B	
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	7.6	75.6	12.5	14.2	16.0	67.3	7.1	19.6				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	3.3	6.9	7.3	4.9	11.1	4.7	3.7	14.2				
Green Ext Time (g_e), s	0.0	1.4	0.3	0.0	0.2	0.6	0.0	0.5				
Prob of Phs Call (p_c)	0.69	1.00	1.00	0.75	0.99	1.00	0.55	1.00				
Prob of Max Out (p_x)	0.00	0.00	0.00	0.52	0.04	0.00	0.01	0.00				
Left-Turn Movement Data												
Assigned Mvmt	1			3			5			7		
Mvmt Sat Flow, veh/h	3183			1641			1641			1641		
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	3193			1777			3139			839		
Right-Turn Movement Data												
Assigned Mvmt	12			14			16			18		
Mvmt Sat Flow, veh/h	385			1585			431			874		
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2024+Project
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		
Lanes in Grp	2	0	0	1	1	0	1	0
Grp Vol (v), veh/h	38	0	0	46	138	0	26	0
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0
Q Serve Time (g_s), s	1.3	0.0	0.0	2.9	9.1	0.0	1.7	0.0
Cycle Q Clear Time (g_c), s	1.3	0.0	0.0	2.9	9.1	0.0	1.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	79	0	0	138	166	0	33	0
V/C Ratio (X)	0.48	0.00	0.00	0.33	0.83	0.00	0.80	0.00
Avail Cap (c_a), veh/h	321	0	0	142	285	0	166	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	52.9	0.0	0.0	47.5	48.5	0.0	53.7	0.0
Incr Delay (d2), s/veh	4.4	0.0	0.0	1.4	10.1	0.0	33.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.3	0.0	0.0	48.9	58.6	0.0	87.4	0.0
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	1.1	3.5	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.5	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	1.2	4.0	0.0	1.0	0.0
%ile Storage Ratio (RQ%)	0.07	0.00	0.00	0.15	0.51	0.00	0.13	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment	T			T				
Lanes in Grp	0	1	1	0	0	1	0	0
Grp Vol (v), veh/h	0	196	37	0	0	92	0	0
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0
Q Serve Time (g_s), s	0.0	4.9	2.2	0.0	0.0	2.6	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.9	2.2	0.0	0.0	2.6	0.0	0.0
Lane Grp Cap (c), veh/h	0	1143	123	0	0	1007	0	0
V/C Ratio (X)	0.00	0.17	0.30	0.00	0.00	0.09	0.00	0.00
Avail Cap (c_a), veh/h	0	1143	496	0	0	1007	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	7.9	48.6	0.0	0.0	10.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.3	1.3	0.0	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.2	50.0	0.0	0.0	11.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.5	0.9	0.0	0.0	0.9	0.0	0.0

HCM 7th Signalized Intersection Capacity Analysis 5: Spreckels Ave & Moffat Blvd

AM 2024+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	1.0	0.0	0.0	0.9	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.04	0.00	0.00	0.24	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	201	78	0	0	96	0	194
Grp Sat Flow (s), veh/h/ln	0	1801	1585	0	0	1793	0	1713
Q Serve Time (g_s), s	0.0	4.9	5.3	0.0	0.0	2.7	0.0	12.2
Cycle Q Clear Time (g_c), s	0.0	4.9	5.3	0.0	0.0	2.7	0.0	12.2
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.21	1.00	0.00	0.00	0.24	0.00	0.51
Lane Grp Cap (c), veh/h	0	1158	110	0	0	1016	0	229
V/C Ratio (X)	0.00	0.17	0.71	0.00	0.00	0.09	0.00	0.85
Avail Cap (c_a), veh/h	0	1158	442	0	0	1016	0	453
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.9	50.1	0.0	0.0	10.9	0.0	46.5
Incr Delay (d2), s/veh	0.0	0.3	8.1	0.0	0.0	0.2	0.0	8.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.2	58.2	0.0	0.0	11.1	0.0	54.9
1st-Term Q (Q1), veh/ln	0.0	1.6	2.0	0.0	0.0	0.9	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.2	0.0	0.0	0.1	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.7	2.3	0.0	0.0	1.0	0.0	5.4
%ile Storage Ratio (RQ%)	0.00	0.04	0.09	0.00	0.00	0.25	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	32.5
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2025

11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	267	33	146	327	49	38	105	140	105	117	26
Future Volume (veh/h)	24	267	33	146	327	49	38	105	140	105	117	26
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	2363	1870	1723	1723	1870	2461	1723	1870	1723
Adj Flow Rate, veh/h	26	290	36	159	355	53	41	114	152	114	127	28
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	33	1711	207	201	1366	202	85	481	723	158	485	107
HCM 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
Prop Arrive On Green	0.02	0.37	0.37	0.09	0.44	0.44	0.03	0.26	0.26	0.10	0.33	0.33
Unsig. Movement Delay												
Ln Grp Delay, s/veh	83.0	22.5	22.8	53.7	19.4	19.4	54.6	32.0	11.7	52.2	0.0	27.1
Ln Grp LOS	F	C	C	D	B	B	D	C	B	D		C
Approach Vol, veh/h	352			567			307			269		
Approach Delay, s/veh	27.0			29.0			25.0			37.8		
Approach LOS	C			C			C			D		
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	2	1	3	4	5	6	7	8				
Case No	3.0	2.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	31.9	15.0	14.3	43.8	7.7	39.2	7.0	51.1				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	27.0	16.5	14.8	27.1	9.2	34.3	10.6	31.3				
Max Allow Headway (MAH), s	4.2	4.1	4.1	4.0	4.1	4.1	4.1	4.0				
Max Q Clear (g_c+I1), s	7.1	9.1	9.3	6.5	3.3	8.6	3.7	9.7				
Green Ext Time (g_e), s	0.9	0.2	0.2	1.1	0.0	0.5	0.0	1.3				
Prob of Phs Call (p_c)	1.00	0.96	0.99	1.00	0.70	1.00	0.53	1.00				
Prob of Max Out (p_x)	0.00	0.05	0.32	0.00	0.08	0.00	0.01	0.00				
Left-Turn Movement Data												
Assigned Mvmt	1		3	5		7						
Mvmt Sat Flow, veh/h	1641		2250	3183		1641						
Through Movement Data												
Assigned Mvmt	2		4		6		8					
Mvmt Sat Flow, veh/h	1870		4615		1484		3105					
Right-Turn Movement Data												
Assigned Mvmt	12		14		16		18					
Mvmt Sat Flow, veh/h	2086		559		327		460					
Left Lane Group Data												
Assigned Mvmt	0	1	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2025
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	0	1	1	0	2	0	1	0
Grp Vol (v), veh/h	0	114	159	0	41	0	26	0
Grp Sat Flow (s), veh/h/ln	0	1641	2250	0	1591	0	1641	0
Q Serve Time (g_s), s	0.0	7.1	7.3	0.0	1.3	0.0	1.7	0.0
Cycle Q Clear Time (g_c), s	0.0	7.1	7.3	0.0	1.3	0.0	1.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	0	158	201	0	85	0	33	0
V/C Ratio (X)	0.00	0.72	0.79	0.00	0.48	0.00	0.78	0.00
Avail Cap (c_a), veh/h	0	258	317	0	279	0	166	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	0.0	46.1	46.8	0.0	50.4	0.0	51.2	0.0
Incr Delay (d2), s/veh	0.0	6.1	6.9	0.0	4.2	0.0	31.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	52.2	53.7	0.0	54.6	0.0	83.0	0.0
1st-Term Q (Q1), veh/ln	0.0	2.7	3.9	0.0	0.5	0.0	0.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.3	0.4	0.0	0.0	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.0	3.0	4.2	0.0	0.6	0.0	0.9	0.0
%ile Storage Ratio (RQ%)	0.00	0.76	0.90	0.00	0.02	0.00	0.16	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	2	0	0	4	0	6	0	8
Lane Assignment	T			T				T
Lanes in Grp	1	0	0	2	0	0	0	1
Grp Vol (v), veh/h	114	0	0	212	0	0	0	202
Grp Sat Flow (s), veh/h/ln	1870	0	0	1702	0	0	0	1777
Q Serve Time (g_s), s	5.1	0.0	0.0	4.4	0.0	0.0	0.0	7.5
Cycle Q Clear Time (g_c), s	5.1	0.0	0.0	4.4	0.0	0.0	0.0	7.5
Lane Grp Cap (c), veh/h	481	0	0	1262	0	0	0	782
V/C Ratio (X)	0.24	0.00	0.00	0.17	0.00	0.00	0.00	0.26
Avail Cap (c_a), veh/h	481	0	0	1262	0	0	0	782
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	30.9	0.0	0.0	22.2	0.0	0.0	0.0	18.6
Incr Delay (d2), s/veh	1.2	0.0	0.0	0.3	0.0	0.0	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	32.0	0.0	0.0	22.5	0.0	0.0	0.0	19.4
1st-Term Q (Q1), veh/ln	2.1	0.0	0.0	1.6	0.0	0.0	0.0	2.8

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2025
11/22/2024

2nd-Term Q (Q2), veh/ln	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	2.3	0.0	0.0	1.7	0.0	0.0	0.0	3.0
%ile Storage Ratio (RQ%)	0.07	0.00	0.00	0.02	0.00	0.00	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	12	0	0	14	0	16	0	18
Lane Assignment	R			T+R		T+R		T+R
Lanes in Grp	1	0	0	1	0	1	0	1
Grp Vol (v), veh/h	152	0	0	114	0	155	0	206
Grp Sat Flow (s), veh/h/ln	2086	0	0	1770	0	1811	0	1788
Q Serve Time (g_s), s	3.4	0.0	0.0	4.5	0.0	6.6	0.0	7.7
Cycle Q Clear Time (g_c), s	3.4	0.0	0.0	4.5	0.0	6.6	0.0	7.7
Prot RT Sat Flow (s_R), veh/h/ln	2085.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	1.00	0.00	0.00	0.32	0.00	0.18	0.00	0.26
Lane Grp Cap (c), veh/h	723	0	0	656	0	592	0	786
V/C Ratio (X)	0.21	0.00	0.00	0.17	0.00	0.26	0.00	0.26
Avail Cap (c_a), veh/h	723	0	0	656	0	592	0	786
Upstream Filter (I)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	11.0	0.0	0.0	22.2	0.0	26.0	0.0	18.6
Incr Delay (d2), s/veh	0.7	0.0	0.0	0.6	0.0	1.1	0.0	0.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	11.7	0.0	0.0	22.8	0.0	27.1	0.0	19.4
1st-Term Q (Q1), veh/ln	1.8	0.0	0.0	1.7	0.0	2.6	0.0	2.9
2nd-Term Q (Q2), veh/ln	0.1	0.0	0.0	0.1	0.0	0.2	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	1.9	0.0	0.0	1.8	0.0	2.8	0.0	3.1
%ile Storage Ratio (RQ%)	0.32	0.00	0.00	0.02	0.00	0.05	0.00	0.03
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	29.3
HCM 7th LOS	C

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	25	4	1	149	121	10
Future Vol, veh/h	25	4	1	149	121	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	4	1	162	132	11

Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	220	71	142	0	-	0
Stage 1	137	-	-	-	-	-
Stage 2	83	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	748	977	1438	-	-	-
Stage 1	875	-	-	-	-	-
Stage 2	930	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	748	977	1438	-	-	-
Mov Cap-2 Maneuver	748	-	-	-	-	-
Stage 1	874	-	-	-	-	-
Stage 2	930	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.82	0.06	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	24	-	748	977	-	-
HCM Lane V/C Ratio	0.001	-	0.036	0.004	-	-
HCM Control Delay (s/veh)	7.5	0	10	8.7	-	-
HCM Lane LOS	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	0	-	-

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	25	4	149	49	8	121
Future Vol, veh/h	25	4	149	49	8	121
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	4	162	53	9	132

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	272	108	0	0	215
Stage 1	189	-	-	-	-
Stage 2	83	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14
Critical Hdwy Stg 1	5.84	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22
Pot Cap-1 Maneuver	695	926	-	-	1352
Stage 1	825	-	-	-	-
Stage 2	930	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	690	926	-	-	1352
Mov Cap-2 Maneuver	690	-	-	-	-
Stage 1	825	-	-	-	-
Stage 2	924	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v10.22		0	0.52
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	690	926	223
HCM Lane V/C Ratio	-	-	0.039	0.005	0.006
HCM Control Delay (s/veh)	-	-	10.4	8.9	7.7
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0	0

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	15	191	23	16	117
Future Vol, veh/h	10	15	191	23	16	117
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	16	208	25	17	127
Major/Minor	Minor1	Major1		Major2		
Conflicting Flow All	318	116	0	0	233	0
Stage 1	220	-	-	-	-	-
Stage 2	98	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	650	914	-	-	1332	-
Stage 1	795	-	-	-	-	-
Stage 2	914	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	641	914	-	-	1332	-
Mov Cap-2 Maneuver	641	-	-	-	-	-
Stage 1	795	-	-	-	-	-
Stage 2	902	-	-	-	-	-
Approach	WB	NB		SB		
HCM Control Delay, s/v	9.69	0		1		
HCM LOS	A					
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	641	914	433	-
HCM Lane V/C Ratio	-	-	0.017	0.018	0.013	-
HCM Control Delay (s/veh)	-	-	10.7	9	7.7	0.1
HCM Lane LOS	-	-	B	A	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0.1	0	-

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2025
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	35	74	43	89	88	131	321	41	34	152	21
Future Volume (veh/h)	23	35	74	43	89	88	131	321	41	34	152	21
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	25	38	80	47	97	96	142	349	45	37	165	23
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	32	126	112	134	115	114	170	2043	261	78	1775	244
HCM 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
Prop Arrive On Green	0.02	0.07	0.07	0.08	0.13	0.13	0.10	0.64	0.64	0.02	0.57	0.57
Unsig. Movement Delay												
Ln Grp Delay, s/veh	86.8	49.9	58.1	49.3	0.0	54.9	58.4	8.1	8.1	57.3	11.1	11.1
Ln Grp LOS	F	D	E	D		D	E	A	A	E	B	B
Approach Vol, veh/h	143			240			536			225		
Approach Delay, s/veh	60.9			53.8			21.4			18.7		
Approach LOS	E			D			C			B		
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	4	3	5	6	7	8				
Case No	2.0	4.0	4.0	2.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	7.6	75.8	12.7	13.9	16.3	67.1	7.0	19.5				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	11.1	39.1	30.7	9.5	19.1	31.1	11.1	29.1				
Max Allow Headway (MAH), s	4.1	4.0	4.2	4.1	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	3.3	6.9	7.4	5.0	11.3	4.7	3.7	14.1				
Green Ext Time (g_e), s	0.0	1.4	0.4	0.0	0.2	0.6	0.0	0.5				
Prob of Phs Call (p_c)	0.68	1.00	1.00	0.76	0.99	1.00	0.53	1.00				
Prob of Max Out (p_x)	0.00	0.00	0.00	0.58	0.05	0.00	0.01	0.00				
Left-Turn Movement Data												
Assigned Mvmt	1			3			5			7		
Mvmt Sat Flow, veh/h	3183			1641			1641			1641		
Through Movement Data												
Assigned Mvmt	2			4			6			8		
Mvmt Sat Flow, veh/h	3169			1777			3139			863		
Right-Turn Movement Data												
Assigned Mvmt	12			14			16			18		
Mvmt Sat Flow, veh/h	405			1585			431			854		
Left Lane Group Data												
Assigned Mvmt	1	0	0	3	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2025
11/22/2024

Lane Assignment	L (Prot)			L (Prot)		L (Prot)		
Lanes in Grp	2	0	0	1	1	0	1	0
Grp Vol (v), veh/h	37	0	0	47	142	0	25	0
Grp Sat Flow (s), veh/h/ln	1591	0	0	1641	1641	0	1641	0
Q Serve Time (g_s), s	1.3	0.0	0.0	3.0	9.3	0.0	1.7	0.0
Cycle Q Clear Time (g_c), s	1.3	0.0	0.0	3.0	9.3	0.0	1.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	78	0	0	134	170	0	32	0
V/C Ratio (X)	0.47	0.00	0.00	0.35	0.83	0.00	0.78	0.00
Avail Cap (c_a), veh/h	321	0	0	142	285	0	166	0
Upstream Filter (I)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	52.9	0.0	0.0	47.8	48.4	0.0	53.7	0.0
Incr Delay (d2), s/veh	4.4	0.0	0.0	1.6	10.1	0.0	33.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	57.3	0.0	0.0	49.3	58.4	0.0	86.8	0.0
1st-Term Q (Q1), veh/ln	0.5	0.0	0.0	1.2	3.6	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.1	0.5	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	0.00	1.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.5	0.0	0.0	1.2	4.1	0.0	1.0	0.0
%ile Storage Ratio (RQ%)	0.07	0.00	0.00	0.16	0.52	0.00	0.12	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	4	0	0	6	0	8
Lane Assignment	T			T				
Lanes in Grp	0	1	1	0	0	1	0	0
Grp Vol (v), veh/h	0	194	38	0	0	92	0	0
Grp Sat Flow (s), veh/h/ln	0	1777	1777	0	0	1777	0	0
Q Serve Time (g_s), s	0.0	4.8	2.2	0.0	0.0	2.6	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.8	2.2	0.0	0.0	2.6	0.0	0.0
Lane Grp Cap (c), veh/h	0	1146	126	0	0	1005	0	0
V/C Ratio (X)	0.00	0.17	0.30	0.00	0.00	0.09	0.00	0.00
Avail Cap (c_a), veh/h	0	1146	496	0	0	1005	0	0
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	7.8	48.5	0.0	0.0	10.9	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.3	1.3	0.0	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.1	49.9	0.0	0.0	11.1	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.5	0.9	0.0	0.0	0.9	0.0	0.0

HCM 7th Signalized Intersection Capacity Analysis 5: Spreckels Ave & Moffat Blvd

AM 2025
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	1.0	0.0	0.0	1.0	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.04	0.04	0.00	0.00	0.24	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	14	0	0	16	0	18
Lane Assignment		T+R	T+R			T+R		T+R
Lanes in Grp	0	1	1	0	0	1	0	1
Grp Vol (v), veh/h	0	200	80	0	0	96	0	193
Grp Sat Flow (s), veh/h/ln	0	1797	1585	0	0	1793	0	1717
Q Serve Time (g_s), s	0.0	4.9	5.4	0.0	0.0	2.7	0.0	12.1
Cycle Q Clear Time (g_c), s	0.0	4.9	5.4	0.0	0.0	2.7	0.0	12.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.23	1.00	0.00	0.00	0.24	0.00	0.50
Lane Grp Cap (c), veh/h	0	1159	112	0	0	1014	0	228
V/C Ratio (X)	0.00	0.17	0.71	0.00	0.00	0.09	0.00	0.85
Avail Cap (c_a), veh/h	0	1159	442	0	0	1014	0	454
Upstream Filter (I)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	7.8	50.0	0.0	0.0	11.0	0.0	46.6
Incr Delay (d2), s/veh	0.0	0.3	8.1	0.0	0.0	0.2	0.0	8.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.1	58.1	0.0	0.0	11.1	0.0	54.9
1st-Term Q (Q1), veh/ln	0.0	1.5	2.1	0.0	0.0	0.9	0.0	4.9
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.3	0.0	0.0	0.1	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	2.3	0.0	0.0	1.0	0.0	5.4
%ile Storage Ratio (RQ%)	0.00	0.04	0.09	0.00	0.00	0.25	0.00	0.09
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	32.6
HCM 7th LOS	C

HCM 7th Edition methodology does not support more than 4 approaches.

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2025+Project

11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		  			 		 				 	
Traffic Volume (veh/h)	24	267	35	153	327	49	39	106	144	105	123	26
Future Volume (veh/h)	24	267	35	153	327	49	39	106	144	105	123	26
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	26	290	38	166	355	53	42	115	157	114	134	28
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	33	578	74	61	444	66	84	1156	903	61	943	197
HCM 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
Prop Arrive On Green	0.02	0.13	0.13	0.04	0.14	0.14	0.03	0.62	0.62	0.04	0.63	0.63
Unsig. Movement Delay												
Ln Grp Delay, s/veh	85.7	44.9	45.9	875.5	50.3	50.7	56.3	8.6	9.2	501.8	0.0	8.4
Ln Grp LOS	F	D	D	F	D	D	E	A	A	F		A
Approach Vol, veh/h		354			574			314			276	
Approach Delay, s/veh		48.2			289.1			15.3			212.2	
Approach LOS		D			F			B			F	
Timer:		1	2	3	4	5	6	7	8			
Assigned Phs		1	2	3	4	5	6	7	8			
Case No		2.0	3.0	2.0	4.0	2.0	4.0	2.0	4.0			
Phs Duration (G+Y+Rc), s		8.9	71.7	8.9	18.5	7.8	72.8	7.1	20.4			
Change Period (Y+Rc), s		4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9			
Max Green (Gmax), s		4.0	38.3	4.0	41.9	4.0	38.3	4.0	41.9			
Max Allow Headway (MAH), s		4.1	4.2	4.1	4.0	4.1	4.1	4.1	4.0			
Max Q Clear (g_c+I1), s		6.0	7.0	6.0	8.6	3.4	5.9	3.7	14.1			
Green Ext Time (g_e), s		0.0	1.0	0.0	1.2	0.0	0.5	0.0	1.4			
Prob of Phs Call (p_c)		0.97	1.00	0.99	1.00	0.72	1.00	0.54	1.00			
Prob of Max Out (p_x)		1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00			
Left-Turn Movement Data												
Assigned Mvmt		1		3		5		7				
Mvmt Sat Flow, veh/h		1641		1641		3183		1641				
Through Movement Data												
Assigned Mvmt			2		4		6		8			
Mvmt Sat Flow, veh/h			1870		4584		1500		3105			
Right-Turn Movement Data												
Assigned Mvmt			12		14		16		18			
Mvmt Sat Flow, veh/h			1460		585		314		460			
Left Lane Group Data												
Assigned Mvmt		1	0	3	0	5	0	7	0			

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2025+Project

11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	1	0	1	0	2	0	1	0
Grp Vol (v), veh/h	114	0	166	0	42	0	26	0
Grp Sat Flow (s), veh/h/ln	1641	0	1641	0	1591	0	1641	0
Q Serve Time (g_s), s	4.0	0.0	4.0	0.0	1.4	0.0	1.7	0.0
Cycle Q Clear Time (g_c), s	4.0	0.0	4.0	0.0	1.4	0.0	1.7	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	61	0	61	0	84	0	33	0
V/C Ratio (X)	1.88	0.00	2.73	0.00	0.50	0.00	0.79	0.00
Avail Cap (c_a), veh/h	61	0	61	0	118	0	61	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	52.0	0.0	52.0	0.0	51.9	0.0	52.7	0.0
Incr Delay (d2), s/veh	449.8	0.0	823.5	0.0	4.5	0.0	33.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	501.8	0.0	875.5	0.0	56.3	0.0	85.7	0.0
1st-Term Q (Q1), veh/ln	1.6	0.0	1.6	0.0	0.5	0.0	0.7	0.0
2nd-Term Q (Q2), veh/ln	7.6	0.0	13.9	0.0	0.1	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	9.2	0.0	15.5	0.0	0.6	0.0	1.0	0.0
%ile Storage Ratio (RQ%)	2.33	0.00	3.27	0.00	0.02	0.00	0.16	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	13.3	0.0	26.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment	T		T		T		T	
Lanes in Grp	0	1	0	2	0	0	0	1
Grp Vol (v), veh/h	0	115	0	213	0	0	0	202
Grp Sat Flow (s), veh/h/ln	0	1870	0	1702	0	0	0	1777
Q Serve Time (g_s), s	0.0	2.7	0.0	6.3	0.0	0.0	0.0	11.9
Cycle Q Clear Time (g_c), s	0.0	2.7	0.0	6.3	0.0	0.0	0.0	11.9
Lane Grp Cap (c), veh/h	0	1156	0	429	0	0	0	254
V/C Ratio (X)	0.00	0.10	0.00	0.50	0.00	0.00	0.00	0.79
Avail Cap (c_a), veh/h	0	1156	0	1321	0	0	0	689
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	0.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	8.4	0.0	44.0	0.0	0.0	0.0	44.7
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.9	0.0	0.0	0.0	5.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.6	0.0	44.9	0.0	0.0	0.0	50.3
1st-Term Q (Q1), veh/ln	0.0	0.9	0.0	2.5	0.0	0.0	0.0	4.9

HCM 7th Signalized Intersection Capacity Analysis

1: Spreckels Ave/Cottage Ave & Yosemite Ave

AM 2025+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.0	0.0	2.6	0.0	0.0	0.0	5.3
%ile Storage Ratio (RQ%)	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		T+R		T+R		T+R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	157	0	115	0	162	0	206
Grp Sat Flow (s), veh/h/ln	0	1460	0	1765	0	1814	0	1788
Q Serve Time (g_s), s	0.0	5.0	0.0	6.6	0.0	3.9	0.0	12.1
Cycle Q Clear Time (g_c), s	0.0	5.0	0.0	6.6	0.0	3.9	0.0	12.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.33	0.00	0.17	0.00	0.26
Lane Grp Cap (c), veh/h	0	903	0	223	0	1141	0	256
V/C Ratio (X)	0.00	0.17	0.00	0.51	0.00	0.14	0.00	0.81
Avail Cap (c_a), veh/h	0	903	0	685	0	1141	0	694
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	8.8	0.0	44.1	0.0	8.2	0.0	44.8
Incr Delay (d2), s/veh	0.0	0.4	0.0	1.8	0.0	0.3	0.0	5.9
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	9.2	0.0	45.9	0.0	8.4	0.0	50.7
1st-Term Q (Q1), veh/ln	0.0	1.3	0.0	2.7	0.0	1.3	0.0	5.1
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.4
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.4	0.0	2.8	0.0	1.3	0.0	5.5
%ile Storage Ratio (RQ%)	0.00	0.24	0.00	0.04	0.00	0.02	0.00	0.06
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

HCM 7th Control Delay, s/veh	162.3
HCM 7th LOS	F

Intersection						
Int Delay, s/veh	0.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	25	4	1	155	136	10
Future Vol, veh/h	25	4	1	155	136	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	4	1	168	148	11

Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	240	79	159	0	-	0
Stage 1	153	-	-	-	-	-
Stage 2	86	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	728	965	1418	-	-	-
Stage 1	859	-	-	-	-	-
Stage 2	927	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	727	965	1418	-	-	-
Mov Cap-2 Maneuver	727	-	-	-	-	-
Stage 1	858	-	-	-	-	-
Stage 2	927	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9.95	0.05	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	EBLn2	SBT	SBR
Capacity (veh/h)	23	-	727	965	-	-
HCM Lane V/C Ratio	0.001	-	0.037	0.005	-	-
HCM Control Delay (s/veh)	7.5	0	10.1	8.7	-	-
HCM Lane LOS	A	A	B	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	0	-	-

Intersection						
Int Delay, s/veh	1					
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	25	4	155	49	8	136
Future Vol, veh/h	25	4	155	49	8	136
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	27	4	168	53	9	148

Major/Minor	Minor1	Major1	Major2			
Conflicting Flow All	286	111	0	0	222	0
Stage 1	195	-	-	-	-	-
Stage 2	91	-	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22	-
Pot Cap-1 Maneuver	680	921	-	-	1344	-
Stage 1	819	-	-	-	-	-
Stage 2	922	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	676	921	-	-	1344	-
Mov Cap-2 Maneuver	676	-	-	-	-	-
Stage 1	819	-	-	-	-	-
Stage 2	916	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v10.33		0	0.47
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBRWBLn1WBLn2	SBL	SBT
Capacity (veh/h)	-	- 676 921	200	-
HCM Lane V/C Ratio	-	- 0.04 0.005	0.006	-
HCM Control Delay (s/veh)	-	- 10.5 8.9	7.7	0
HCM Lane LOS	-	- B A	A	A
HCM 95th %tile Q(veh)	-	- 0.1 0	0	-

Intersection

Int Delay, s/veh 1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	10	15	212	23	16	124
Future Vol, veh/h	10	15	212	23	16	124
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	11	16	230	25	17	135

Major/Minor	Minor1	Major1	Major2		
Conflicting Flow All	345	128	0	0	255
Stage 1	243	-	-	-	-
Stage 2	102	-	-	-	-
Critical Hdwy	6.84	6.94	-	-	4.14
Critical Hdwy Stg 1	5.84	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-
Follow-up Hdwy	3.52	3.32	-	-	2.22
Pot Cap-1 Maneuver	625	899	-	-	1307
Stage 1	775	-	-	-	-
Stage 2	911	-	-	-	-
Platoon blocked, %			-	-	-
Mov Cap-1 Maneuver	617	899	-	-	1307
Mov Cap-2 Maneuver	617	-	-	-	-
Stage 1	775	-	-	-	-
Stage 2	898	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.82	0	0.97
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBRWBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	617	899	411
HCM Lane V/C Ratio	-	-	0.018	0.018	0.013
HCM Control Delay (s/veh)	-	-	10.9	9.1	7.8
HCM Lane LOS	-	-	B	A	A
HCM 95th %tile Q(veh)	-	-	0.1	0.1	0

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2025+Project
11/22/2024

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	25	35	74	43	89	93	131	335	41	36	156	22
Future Volume (veh/h)	25	35	74	43	89	93	131	335	41	36	156	22
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No			No			No		
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1723	1870	1723	1723	1870	1723	1723	1870	1723	1723	1870	1723
Adj Flow Rate, veh/h	27	38	80	47	97	101	142	364	45	39	170	24
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	36	227	202	57	118	123	75	1885	231	88	1798	250
HCM 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
Prop Arrive On Green	0.02	0.13	0.13	0.04	0.14	0.14	0.05	0.59	0.59	0.03	0.57	0.57
Unsig. Movement Delay												
Ln Grp Delay, s/veh	70.6	35.3	37.3	82.8	0.0	44.3	493.6	8.9	8.9	46.5	8.8	8.8
Ln Grp LOS	E	D	D	F		D	F	A	A	D	A	A
Approach Vol, veh/h	145			245			551			233		
Approach Delay, s/veh	43.0			51.7			133.8			15.1		
Approach LOS	D			D			F			B		
Timer:	1	2	3	4	5	6	7	8				
Assigned Phs	1	2	3	4	5	6	7	8				
Case No	2.0	4.0	2.0	4.0	2.0	4.0	2.0	4.0				
Phs Duration (G+Y+Rc), s	7.4	58.2	8.1	16.4	9.0	56.6	6.9	17.6				
Change Period (Y+Rc), s	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9				
Max Green (Gmax), s	4.1	34.1	4.1	28.1	4.1	34.1	4.1	28.1				
Max Allow Headway (MAH), s	4.1	4.0	4.1	4.2	4.1	4.0	4.1	4.2				
Max Q Clear (g_c+I1), s	3.1	6.8	4.6	6.2	6.1	4.2	3.5	12.1				
Green Ext Time (g_e), s	0.0	1.4	0.0	0.3	0.0	0.6	0.0	0.6				
Prob of Phs Call (p_c)	0.62	1.00	0.69	1.00	0.97	1.00	0.49	1.00				
Prob of Max Out (p_x)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00				
Left-Turn Movement Data												
Assigned Mvmt	1		3		5		7					
Mvmt Sat Flow, veh/h	3183		1641		1641		1641					
Through Movement Data												
Assigned Mvmt		2		4		6		8				
Mvmt Sat Flow, veh/h		3186		1777		3133		839				
Right-Turn Movement Data												
Assigned Mvmt			12		14		16		18			
Mvmt Sat Flow, veh/h			391		1585		436		874			
Left Lane Group Data												
Assigned Mvmt	1	0	3	0	5	0	7	0				

HCM 7th Signalized Intersection Capacity Analysis

5: Spreckels Ave & Moffat Blvd

AM 2025+Project
11/22/2024

Lane Assignment	L (Prot)		L (Prot)		L (Prot)		L (Prot)	
Lanes in Grp	2	0	1	0	1	0	1	0
Grp Vol (v), veh/h	39	0	47	0	142	0	27	0
Grp Sat Flow (s), veh/h/ln	1591	0	1641	0	1641	0	1641	0
Q Serve Time (g_s), s	1.1	0.0	2.6	0.0	4.1	0.0	1.5	0.0
Cycle Q Clear Time (g_c), s	1.1	0.0	2.6	0.0	4.1	0.0	1.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	0	0	0	0	0	0	0	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Serve Time (g_u), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Perm LT Q Serve Time (g_ps), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	88	0	57	0	75	0	36	0
V/C Ratio (X)	0.44	0.00	0.82	0.00	1.90	0.00	0.75	0.00
Avail Cap (c_a), veh/h	145	0	75	0	75	0	75	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	43.1	0.0	43.1	0.0	43.0	0.0	43.8	0.0
Incr Delay (d2), s/veh	3.5	0.0	39.6	0.0	450.6	0.0	26.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	46.5	0.0	82.8	0.0	493.6	0.0	70.6	0.0
1st-Term Q (Q1), veh/ln	0.4	0.0	1.0	0.0	1.6	0.0	0.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.6	0.0	9.4	0.0	0.3	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	0.4	0.0	1.6	0.0	10.9	0.0	0.8	0.0
%ile Storage Ratio (RQ%)	0.06	0.00	0.20	0.00	1.39	0.00	0.11	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0
Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment	T		T		T			
Lanes in Grp	0	1	0	1	0	1	0	0
Grp Vol (v), veh/h	0	202	0	38	0	95	0	0
Grp Sat Flow (s), veh/h/ln	0	1777	0	1777	0	1777	0	0
Q Serve Time (g_s), s	0.0	4.7	0.0	1.7	0.0	2.2	0.0	0.0
Cycle Q Clear Time (g_c), s	0.0	4.7	0.0	1.7	0.0	2.2	0.0	0.0
Lane Grp Cap (c), veh/h	0	1052	0	227	0	1020	0	0
V/C Ratio (X)	0.00	0.19	0.00	0.17	0.00	0.09	0.00	0.00
Avail Cap (c_a), veh/h	0	1052	0	555	0	1020	0	0
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00
Uniform Delay (d1), s/veh	0.0	8.5	0.0	35.0	0.0	8.6	0.0	0.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.3	0.0	0.2	0.0	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.9	0.0	35.3	0.0	8.8	0.0	0.0
1st-Term Q (Q1), veh/ln	0.0	1.4	0.0	0.7	0.0	0.7	0.0	0.0

HCM 7th Signalized Intersection Capacity Analysis 5: Spreckels Ave & Moffat Blvd

AM 2025+Project
11/22/2024

2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.5	0.0	0.7	0.0	0.7	0.0	0.0
%ile Storage Ratio (RQ%)	0.00	0.03	0.00	0.03	0.00	0.18	0.00	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Right Lane Group Data

Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment	T+R		T+R		T+R		T+R	
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	207	0	80	0	99	0	198
Grp Sat Flow (s), veh/h/ln	0	1800	0	1585	0	1792	0	1713
Q Serve Time (g_s), s	0.0	4.8	0.0	4.2	0.0	2.2	0.0	10.1
Cycle Q Clear Time (g_c), s	0.0	4.8	0.0	4.2	0.0	2.2	0.0	10.1
Prot RT Sat Flow (s_R), veh/h/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prot RT Eff Green (g_R), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop RT Outside Lane (P_R)	0.00	0.22	0.00	1.00	0.00	0.24	0.00	0.51
Lane Grp Cap (c), veh/h	0	1065	0	202	0	1029	0	241
V/C Ratio (X)	0.00	0.19	0.00	0.40	0.00	0.10	0.00	0.82
Avail Cap (c_a), veh/h	0	1065	0	495	0	1029	0	535
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	8.5	0.0	36.1	0.0	8.6	0.0	37.6
Incr Delay (d2), s/veh	0.0	0.4	0.0	1.3	0.0	0.2	0.0	6.8
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	8.9	0.0	37.3	0.0	8.8	0.0	44.3
1st-Term Q (Q1), veh/ln	0.0	1.4	0.0	1.5	0.0	0.7	0.0	3.9
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	1.6	0.0	1.6	0.0	0.7	0.0	4.4
%ile Storage Ratio (RQ%)	0.00	0.04	0.00	0.06	0.00	0.19	0.00	0.08
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary

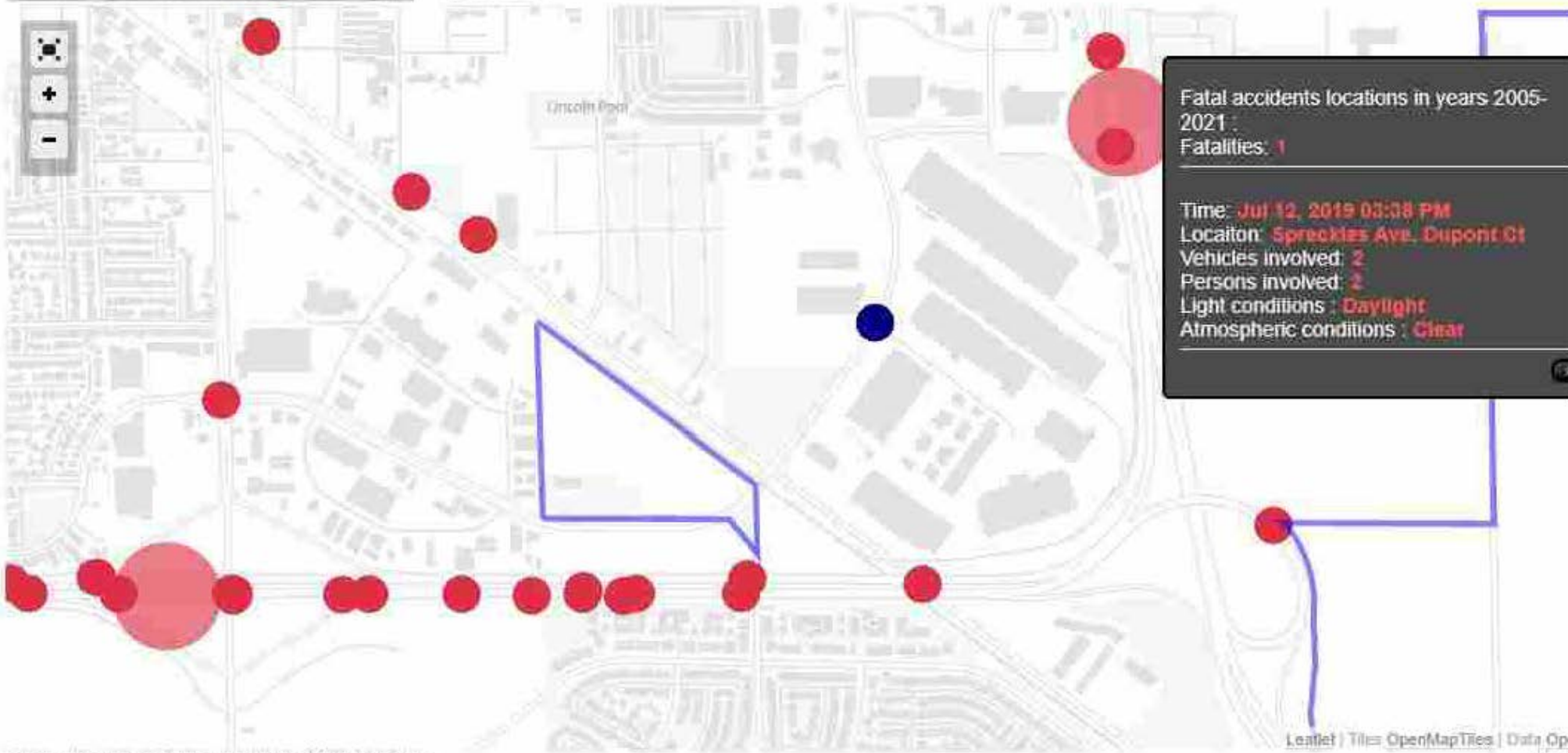
HCM 7th Control Delay, s/veh	81.9
HCM 7th LOS	F

HCM 7th Edition methodology does not support more than 4 approaches.

Data: Fatal accidents locations in years 2005-2021

Find City, State, County or Zip Code

Get link



Displaying custom serie. Showing 567,619 points

Leaflet | Tiles: OpenMapTiles | Data: Opx Bas

Settings

mStreetMap contribution
ed on 2000-2022 data

Warrants Summary Report

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	5 Hours met (8 required)
Condition A and B Met?	No	4 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	2 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 11 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%

Condition B Met? **No** 5 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	96	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	87	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	94	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	81	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		65	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		58	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		57	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		98	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		98	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		92	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		70	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		28	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		25	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		37	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		60	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		81	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		136	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		147	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		135	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		136	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		106	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		111	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		135	11		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

05:45 to 06:45		187	15		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:00 to 07:00		261	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:15 to 07:15		290	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:30 to 07:30		317	24		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:45 to 07:45		314	28		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

07:00 to 08:00		294	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:15 to 08:15		333	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:30 to 08:30		386	25	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:45 to 08:45		468	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:00 to 09:00		609	53	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:15 to 09:15		722	80	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		783		94		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
08:45 to 09:45		786		111		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:00 to 10:00		727		117		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:15 to 10:15		698		114		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
09:30 to 10:30		720		120		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:45 to 10:45		735		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		783		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		760		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		763		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		775		141		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		793		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		847		162		No	No	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		879		157		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		882		182		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		866		173		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		884		187		No	No	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		887		187		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		918		161		No	Yes*	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		938		151		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:15 to 14:15		911		134		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:30 to 14:30		897		127		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:45 to 14:45		871		126		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:00 to 15:00		846		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:15 to 15:15		869		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

14:30 to 15:30		907		160		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:45 to 15:45		1,032		172		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:00 to 16:00		1,085		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:15 to 16:15		1,146		177		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:30 to 16:30		1,118		157		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:45 to 16:45		1,034		156		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

16:00 to 17:00		1,025		146		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
16:15 to 17:15		1,022		145		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
16:30 to 17:30		1,054		152		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
16:45 to 17:45		1,105		153		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
17:00 to 18:00		1,130		160		No	Yes	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
17:15 to 18:15		1,118		176		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

17:30 to 18:30		1,087	152	No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:45 to 18:45		1,073	134	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:00 to 19:00		1,044	120	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:15 to 19:15		1,013	88	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:30 to 19:30		1,007	89	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:45 to 19:45		927	87	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

19:00 to 20:00		859		83		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		777		83		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		703		70		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
19:45 to 20:45		645		60		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
20:00 to 21:00		582		46		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
20:15 to 21:15		564		35		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					

20:30 to 21:30		533	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:45 to 21:45		519	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:00 to 22:00		494	36	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:15 to 22:15		462	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:30 to 22:30		461	41	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:45 to 22:45		426	46	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		405	47	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		359	55	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		288	51	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		259	44	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		215	37	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		175	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		141	13	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:45 to 00:45		102	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

Warrant 2: Four-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

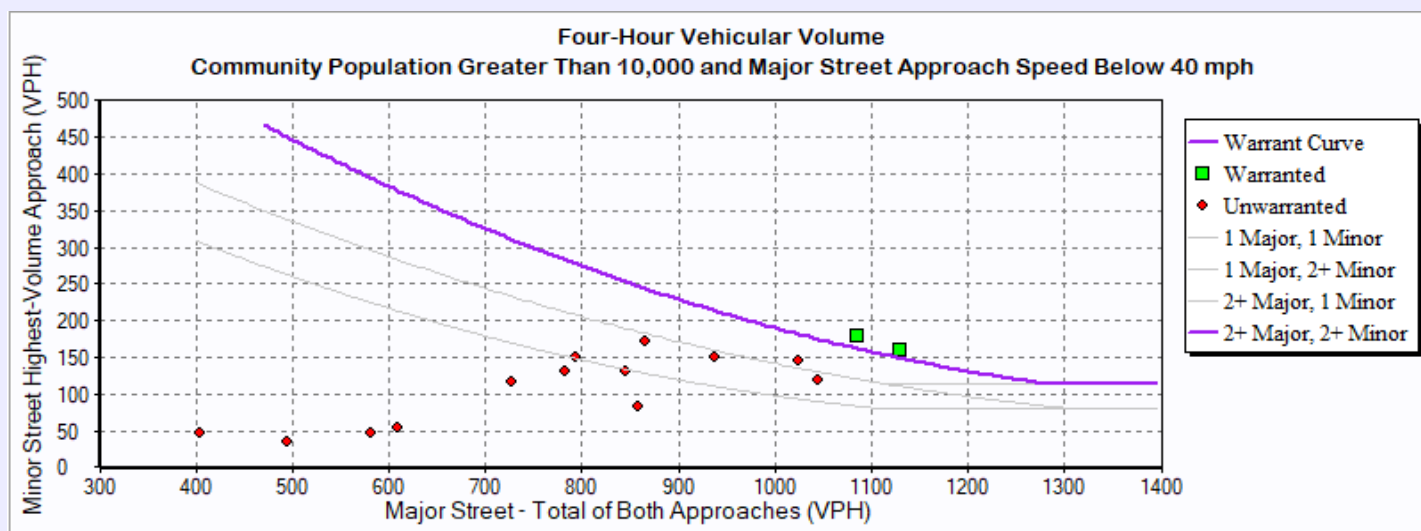
	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 2 Met? **No**

Details:

Notes 2 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	96	2
01:00:00 - 02:00:00	65	4
02:00:00 - 03:00:00	98	2
03:00:00 - 04:00:00	25	1
04:00:00 - 05:00:00	136	10
05:00:00 - 06:00:00	106	6
06:00:00 - 07:00:00	261	22
07:00:00 - 08:00:00	294	24
08:00:00 - 09:00:00	609	53
09:00:00 - 10:00:00	727	117
10:00:00 - 11:00:00	783	132
11:00:00 - 12:00:00	793	150
12:00:00 - 13:00:00	866	173
13:00:00 - 14:00:00	938	151
14:00:00 - 15:00:00	846	132
15:00:00 - 16:00:00	1085	179
16:00:00 - 17:00:00	1025	146
17:00:00 - 18:00:00	1130	160
18:00:00 - 19:00:00	1044	120
19:00:00 - 20:00:00	859	83
20:00:00 - 21:00:00	582	46
21:00:00 - 22:00:00	494	36
22:00:00 - 23:00:00	405	47
23:00:00 - 00:00:00	215	37

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
15:00:00 - 16:00:00	1,085.00	179.00
17:00:00 - 18:00:00	1,130.00	160.00

Warrant 3: Peak Hour

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

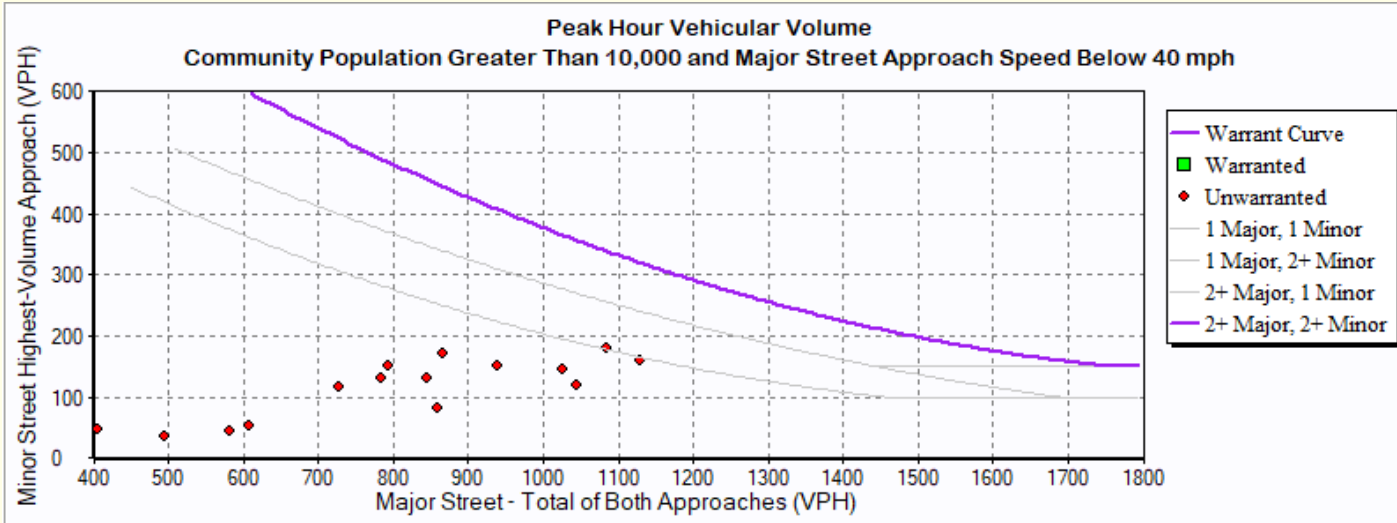
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	96	2
1:00	65	4
2:00	98	2
3:00	25	1
4:00	136	10
5:00	106	6

6:00	261	22
7:00	294	24
8:00	609	53
9:00	727	117
10:00	783	132
11:00	793	150
12:00	866	173
13:00	938	151
14:00	846	132
15:00	1,085	179
16:00	1,025	146
17:00	1,130	160
18:00	1,044	120
19:00	859	83
20:00	582	46
21:00	494	36
22:00	405	47
23:00	215	37

Warrant 4: Pedestrian Volume

2: Spreckels Ave & Norman Dr

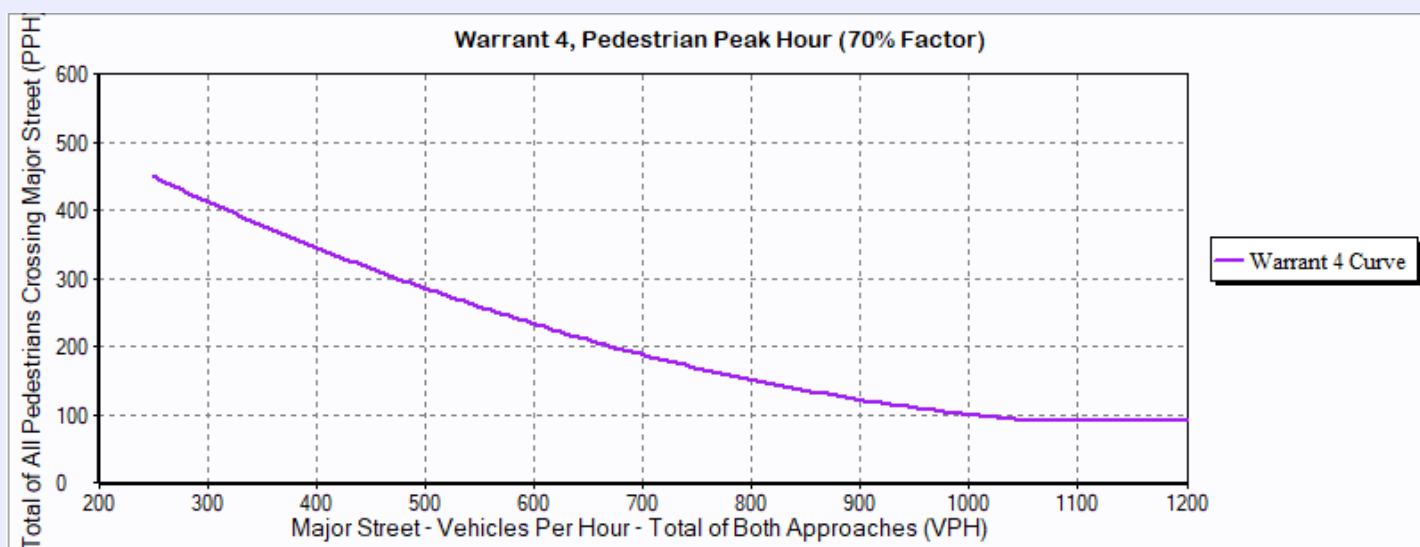
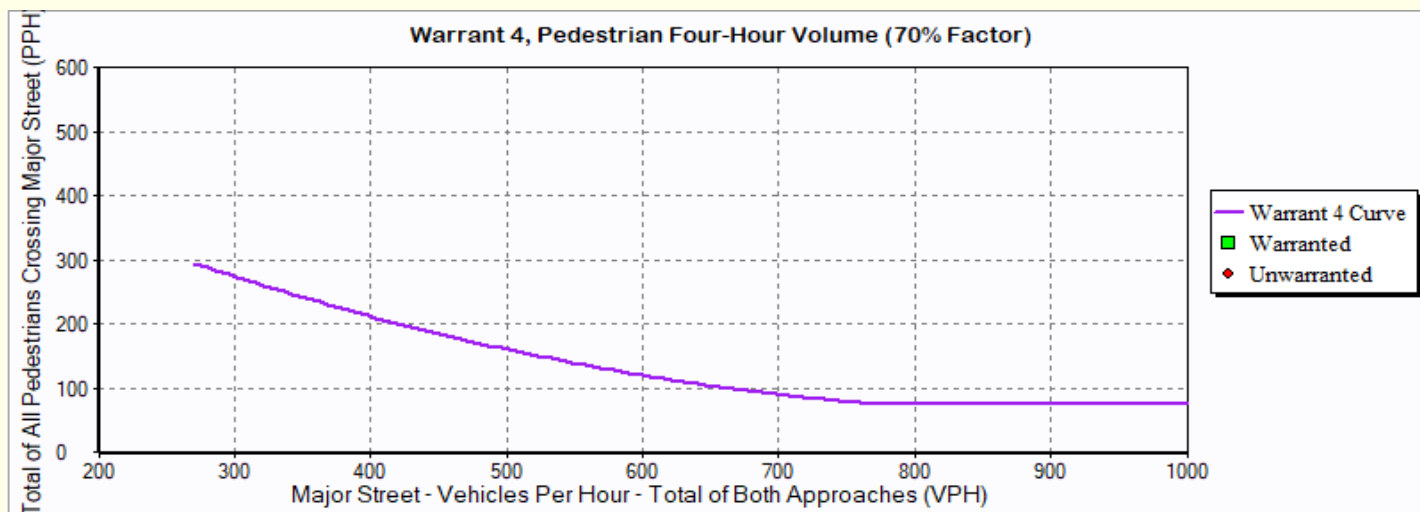
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 6 MET? **No**

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
EB Approach (Norman Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		11 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Eastbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	96	2	No	No	0	No	0	No
00:15 to 01:15	87	1	No	No	0	No	0	No
00:30 to 01:30	94	1	No	No	0	No	0	No
00:45 to 01:45	81	2	No	No	0	No	0	No
01:00 to 02:00	65	4	No	No	0	No	0	No
01:15 to 02:15	58	4	No	No	0	No	0	No
01:30 to 02:30	57	3	No	No	0	No	0	No
01:45 to 02:45	98	3	No	No	0	No	0	No

02:00 to 03:00	98	2	No	No	0	No	0	No
02:15 to 03:15	92	2	No	No	0	No	0	No
02:30 to 03:30	70	3	No	No	0	No	0	No
02:45 to 03:45	28	2	No	No	0	No	0	No
03:00 to 04:00	25	1	No	No	0	No	0	No
03:15 to 04:15	37	2	No	No	0	No	0	No
03:30 to 04:30	60	4	No	No	0	No	0	No
03:45 to 04:45	81	9	No	No	0	No	0	No
04:00 to 05:00	136	10	No	No	0	No	0	No
04:15 to 05:15	147	11	No	No	0	No	0	No
04:30 to 05:30	135	10	No	No	0	No	0	No
04:45 to 05:45	136	5	No	No	0	No	0	No
05:00 to 06:00	106	6	No	No	0	No	0	No
05:15 to 06:15	111	8	No	No	0	No	0	No
05:30 to 06:30	135	11	No	No	0	No	0	No
05:45 to 06:45	187	15	No	No	0	No	0	No
06:00 to 07:00	261	22	No	No	0	No	0	No
06:15 to 07:15	290	22	No	No	0	No	0	No

06:30 to 07:30	317	24	No	No	0	No	0	No
06:45 to 07:45	314	28	No	No	0	No	0	No
07:00 to 08:00	294	24	No	No	0	No	0	No
07:15 to 08:15	333	24	No	No	0	No	0	No
07:30 to 08:30	386	25	No	No	0	No	0	No
07:45 to 08:45	468	33	No	No	0	No	0	No
08:00 to 09:00	609	53	No	No	0	No	0	No
08:15 to 09:15	722	80	No*	Yes*	0	No	0	No
08:30 to 09:30	783	94	No	Yes	0	No	0	No
08:45 to 09:45	786	111	No	Yes	0	No	0	No
09:00 to 10:00	727	117	No	Yes	0	No	0	No
09:15 to 10:15	698	114	No	No	0	No	0	No
09:30 to 10:30	720	120	No*	Yes*	0	No	0	No
09:45 to 10:45	735	122	No	Yes	0	No	0	No
10:00 to 11:00	783	132	No	Yes	0	No	0	No
10:15 to 11:15	760	132	No	Yes	0	No	0	No
10:30 to 11:30	763	148	No*	Yes*	0	No	0	No
10:45 to 11:45	775	141	No	Yes	0	No	0	No

11:00 to 12:00	793	150	No	Yes	0	No	0	No
11:15 to 12:15	847	162	Yes	Yes	0	No	0	No
11:30 to 12:30	879	157	No*	Yes*	0	No	0	No
11:45 to 12:45	882	182	Yes	Yes	0	No	0	No
12:00 to 13:00	866	173	Yes	Yes	0	No	0	No
12:15 to 13:15	884	187	Yes	Yes	0	No	0	No
12:30 to 13:30	887	187	Yes*	Yes*	0	No	0	No
12:45 to 13:45	918	161	Yes	Yes	0	No	0	No
13:00 to 14:00	938	151	No	Yes	0	No	0	No
13:15 to 14:15	911	134	No	Yes	0	No	0	No
13:30 to 14:30	897	127	No*	Yes*	0	No	0	No
13:45 to 14:45	871	126	No	Yes	0	No	0	No
14:00 to 15:00	846	132	No	Yes	0	No	0	No
14:15 to 15:15	869	132	No	Yes	0	No	0	No
14:30 to 15:30	907	160	Yes*	Yes*	0	No	0	No
14:45 to 15:45	1,032	172	Yes	Yes	0	No	0	No
15:00 to 16:00	1,085	179	Yes	Yes	0	No	0	No
15:15 to 16:15	1,146	177	Yes	Yes	0	No	0	No

15:30 to 16:30	1,118	157	No*	Yes*	0	No	0	No
15:45 to 16:45	1,034	156	No	Yes	0	No	0	No
16:00 to 17:00	1,025	146	No	Yes	0	No	0	No
16:15 to 17:15	1,022	145	No	Yes	0	No	0	No
16:30 to 17:30	1,054	152	No*	Yes*	0	No	0	No
16:45 to 17:45	1,105	153	No	Yes	0	No	0	No
17:00 to 18:00	1,130	160	Yes	Yes	0	No	0	No
17:15 to 18:15	1,118	176	Yes	Yes	0	No	0	No
17:30 to 18:30	1,087	152	No*	Yes*	0	No	0	No
17:45 to 18:45	1,073	134	No	Yes	0	No	0	No
18:00 to 19:00	1,044	120	No	Yes	0	No	0	No
18:15 to 19:15	1,013	88	No	Yes	0	No	0	No
18:30 to 19:30	1,007	89	No*	Yes*	0	No	0	No
18:45 to 19:45	927	87	No	Yes	0	No	0	No
19:00 to 20:00	859	83	No	Yes	0	No	0	No
19:15 to 20:15	777	83	No	Yes	0	No	0	No
19:30 to 20:30	703	70	No	No	0	No	0	No
19:45 to 20:45	645	60	No	No	0	No	0	No

20:00 to 21:00	582	46	No	No	0	No	0	No
20:15 to 21:15	564	35	No	No	0	No	0	No
20:30 to 21:30	533	34	No	No	0	No	0	No
20:45 to 21:45	519	33	No	No	0	No	0	No
21:00 to 22:00	494	36	No	No	0	No	0	No
21:15 to 22:15	462	40	No	No	0	No	0	No
21:30 to 22:30	461	41	No	No	0	No	0	No
21:45 to 22:45	426	46	No	No	0	No	0	No
22:00 to 23:00	405	47	No	No	0	No	0	No
22:15 to 23:15	359	55	No	No	0	No	0	No
22:30 to 23:30	288	51	No	No	0	No	0	No
22:45 to 23:45	259	44	No	No	0	No	0	No
23:00 to 00:00	215	37	No	No	0	No	0	No
23:15 to 00:15	175	19	No	No	0	No	0	No
23:30 to 00:30	141	13	No	No	0	No	0	No
23:45 to 00:45	102	8	No	No	0	No	0	No

Warrant 8: Roadway Network

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	EB
L	0.00		0.00
T	0.00	0.00	
R		0.00	0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,323	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,323	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

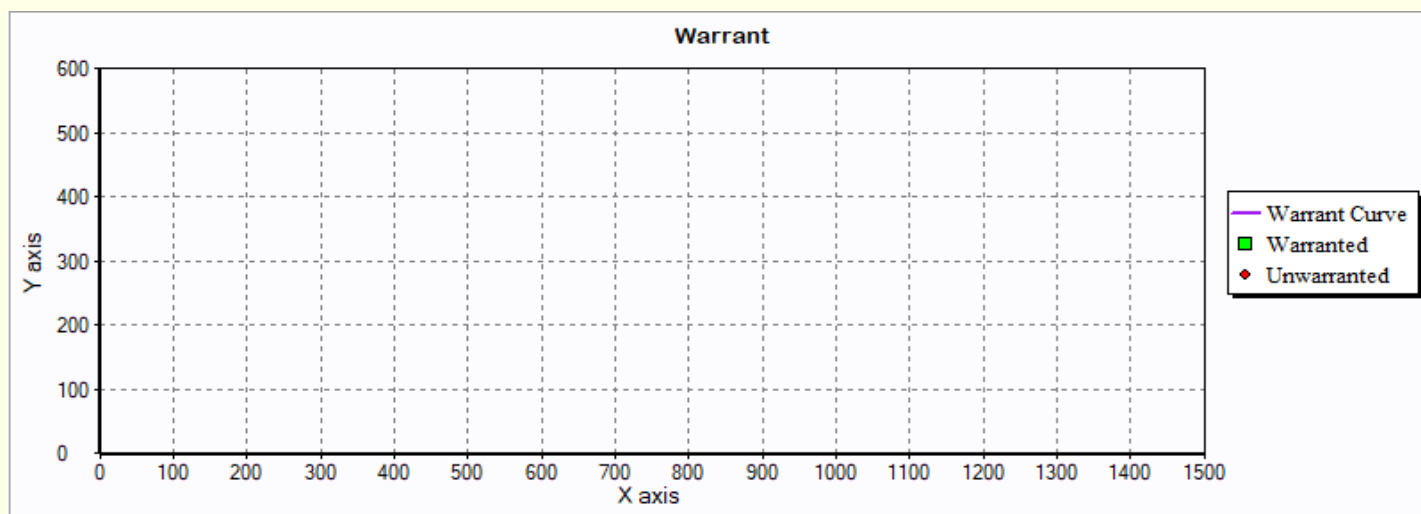
Distance from the center of the track to the stop or yield line Interpolated

Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	98	0	No	No
00:15 to 01:15	88	0	No	No
00:30 to 01:30	95	0	No	No
00:45 to 01:45	83	0	No	No
01:00 to 02:00	69	0	No	No
01:15 to 02:15	62	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	101	0	No	No
02:00 to 03:00	100	0	No	No
02:15 to 03:15	94	0	No	No
02:30 to 03:30	73	0	No	No
02:45 to 03:45	30	0	No	No
03:00 to 04:00	26	0	No	No
03:15 to 04:15	39	0	No	No
03:30 to 04:30	64	0	No	No
03:45 to 04:45	90	0	No	No
04:00 to 05:00	146	0	No	No
04:15 to 05:15	158	0	No	No
04:30 to 05:30	145	0	No	No
04:45 to 05:45	141	0	No	No
05:00 to 06:00	112	0	No	No

05:15 to 06:15	119	0	No	No
05:30 to 06:30	146	0	No	No
05:45 to 06:45	202	0	No	No
06:00 to 07:00	283	0	No	No
06:15 to 07:15	312	0	No	No
06:30 to 07:30	341	0	No	No
06:45 to 07:45	342	0	No	No
07:00 to 08:00	318	0	No	No
07:15 to 08:15	357	0	No	No
07:30 to 08:30	411	0	No	No
07:45 to 08:45	501	0	No	No
08:00 to 09:00	662	0	No	No
08:15 to 09:15	802	0	No	No
08:30 to 09:30	877	0	No	No
08:45 to 09:45	897	0	No	No
09:00 to 10:00	844	0	No	No
09:15 to 10:15	812	0	No	No
09:30 to 10:30	840	0	No	No
09:45 to 10:45	857	0	No	No
10:00 to 11:00	915	0	No	No
10:15 to 11:15	892	0	No	No
10:30 to 11:30	911	0	No	No
10:45 to 11:45	916	0	No	No
11:00 to 12:00	943	0	No	No
11:15 to 12:15	1,009	0	No	No
11:30 to 12:30	1,036	0	No	No
11:45 to 12:45	1,064	0	No	No
12:00 to 13:00	1,039	0	No	No
12:15 to 13:15	1,071	0	No	No
12:30 to 13:30	1,074	0	No	No
12:45 to 13:45	1,079	0	No	No
13:00 to 14:00	1,089	0	No	No
13:15 to 14:15	1,045	0	No	No
13:30 to 14:30	1,024	0	No	No
13:45 to 14:45	997	0	No	No
14:00 to 15:00	978	0	No	No
14:15 to 15:15	1,001	0	No	No

14:30 to 15:30	1,067	0	No	No
14:45 to 15:45	1,204	0	No	No
15:00 to 16:00	1,264	0	No	No
15:15 to 16:15	1,323	0	No*	No*
15:30 to 16:30	1,275	0	No	No
15:45 to 16:45	1,190	0	No	No
16:00 to 17:00	1,171	0	No	No
16:15 to 17:15	1,167	0	No	No
16:30 to 17:30	1,206	0	No	No
16:45 to 17:45	1,258	0	No	No
17:00 to 18:00	1,290	0	No	No
17:15 to 18:15	1,294	0	No	No
17:30 to 18:30	1,239	0	No	No
17:45 to 18:45	1,207	0	No	No
18:00 to 19:00	1,164	0	No	No
18:15 to 19:15	1,101	0	No	No
18:30 to 19:30	1,096	0	No	No
18:45 to 19:45	1,014	0	No	No
19:00 to 20:00	942	0	No	No
19:15 to 20:15	860	0	No	No
19:30 to 20:30	773	0	No	No
19:45 to 20:45	705	0	No	No
20:00 to 21:00	628	0	No	No
20:15 to 21:15	599	0	No	No
20:30 to 21:30	567	0	No	No
20:45 to 21:45	552	0	No	No
21:00 to 22:00	530	0	No	No
21:15 to 22:15	502	0	No	No
21:30 to 22:30	502	0	No	No
21:45 to 22:45	472	0	No	No
22:00 to 23:00	452	0	No	No
22:15 to 23:15	414	0	No	No
22:30 to 23:30	339	0	No	No
22:45 to 23:45	303	0	No	No
23:00 to 00:00	252	0	No	No
23:15 to 00:15	194	0	No	No
23:30 to 00:30	154	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 4 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	East Bound Bicycle Volumes	North Bound Ped Volumes	East Bound Ped Volumes	Major Street Veh Vol > 210	Minor Street Avg(Veh + Ped + Bicycle) > 200	Minor Street Delay > 30
11:15 to 12:15	847	162	0	0	0	0	False	No	No
12:15 to 13:15	884	187	0	0	0	0	False	No	No
14:30 to 15:30	907	160	0	0	0	0	False	No	No
17:00 to 18:00	1,130	160	0	0	0	0	False	No	No

Warrants Summary Report

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	6 Hours met (8 required)
Condition A and B Met?	No	4 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	2 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 11 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave
Major Street Direction: NB/SB
Minor Street Direction: EB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%
Condition B Met? **No** 6 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	96	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	87	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	94	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	81	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		65	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		58	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		57	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		99	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		99	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		93	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		71	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
02:45 to 03:45		28	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
03:00 to 04:00		25	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
03:15 to 04:15		37	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
03:30 to 04:30		60	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
03:45 to 04:45		82	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		139	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		150	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		138	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		138	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		107	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		113	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		138	11		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

05:45 to 06:45		192	15		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:00 to 07:00		268	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:15 to 07:15		298	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:30 to 07:30		326	24		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:45 to 07:45		323	28		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

07:00 to 08:00		302	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		341	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		394	25	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		477	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		620	53	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		734	80	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		797		94		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
08:45 to 09:45		800		111		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:00 to 10:00		740		117		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:15 to 10:15		711		114		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
09:30 to 10:30		733		120		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:45 to 10:45		749		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		798		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		776		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		779		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		791		141		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		809		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		863		162		No	No	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		895		157		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		898		182		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		882		173		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		900		187		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		903		187		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		934		161		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		955		151		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:15 to 14:15		928		134		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:30 to 14:30		914		127		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:45 to 14:45		888		126		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:00 to 15:00		862		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:15 to 15:15		885		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

14:30 to 15:30		924		160		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:45 to 15:45		1,051		172		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:00 to 16:00		1,105		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:15 to 16:15		1,167		177		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:30 to 16:30		1,139		157		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:45 to 16:45		1,054		156		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

16:00 to 17:00		1,046	146	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:15 to 17:15		1,044	145	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:30 to 17:30		1,077	152	No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:45 to 17:45		1,129	153	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:00 to 18:00		1,155	160	No	Yes	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:15 to 18:15		1,143	176	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

17:30 to 18:30		1,111	152	No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:45 to 18:45		1,097	134	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:00 to 19:00		1,067	120	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:15 to 19:15		1,035	88	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:30 to 19:30		1,028	89	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:45 to 19:45		946	87	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

19:00 to 20:00		876	83	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
19:15 to 20:15		793	83	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
19:30 to 20:30		718	70	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
19:45 to 20:45		659	60	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:00 to 21:00		595	46	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:15 to 21:15		577	35	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:30 to 21:30		545	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:45 to 21:45		530	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:00 to 22:00		504	36	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:15 to 22:15		470	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:30 to 22:30		469	41	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:45 to 22:45		434	46	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		413	47	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		367	55	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		295	51	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		266	44	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		220	37	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		178	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		143	13		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		102	8		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

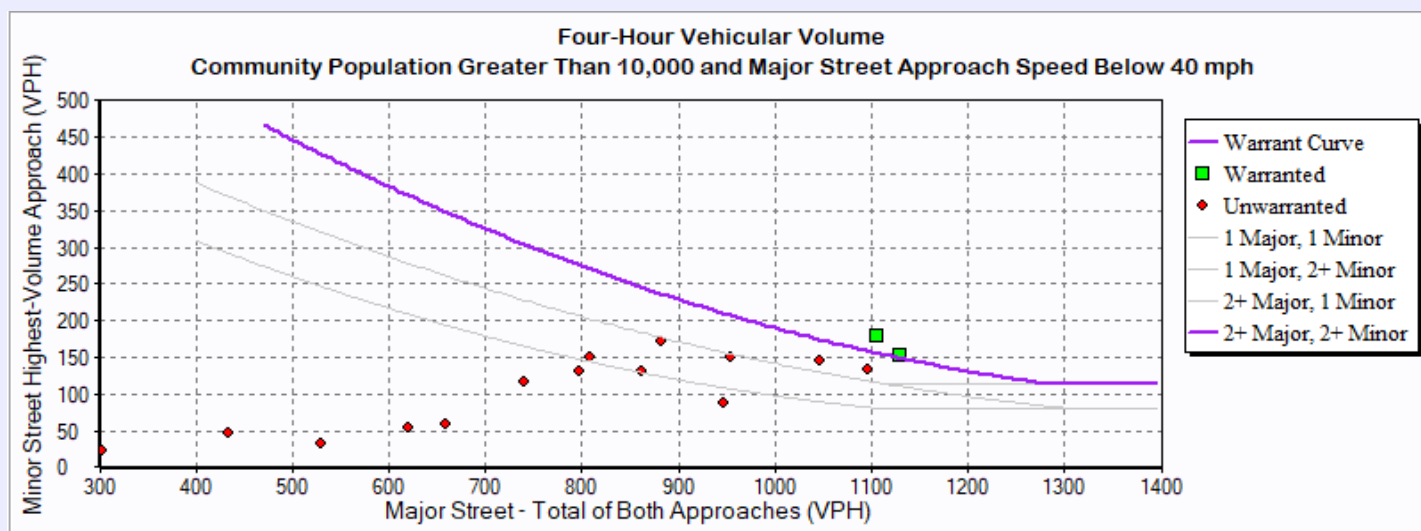
	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 2 Met? **No**

Details:

Notes 2 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	96	2
01:00:00 - 02:00:00	65	4
02:00:00 - 03:00:00	99	2
03:00:00 - 04:00:00	25	1
04:00:00 - 05:00:00	139	10
05:00:00 - 06:00:00	107	6
06:00:00 - 07:00:00	268	22
07:00:00 - 08:00:00	302	24
08:00:00 - 09:00:00	620	53
09:00:00 - 10:00:00	740	117
10:00:00 - 11:00:00	798	132
11:00:00 - 12:00:00	809	150
12:00:00 - 13:00:00	882	173
13:00:00 - 14:00:00	955	151
14:00:00 - 15:00:00	862	132
15:00:00 - 16:00:00	1105	179
16:00:00 - 17:00:00	1046	146
17:00:00 - 18:00:00	1155	160
18:00:00 - 19:00:00	1067	120
19:00:00 - 20:00:00	876	83
20:00:00 - 21:00:00	595	46
21:00:00 - 22:00:00	504	36
22:00:00 - 23:00:00	413	47
23:00:00 - 00:00:00	220	37

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
15:00:00 - 16:00:00	1,105.00	179.00
16:45:00 - 17:45:00	1,129.00	153.00

Warrant 3: Peak Hour

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

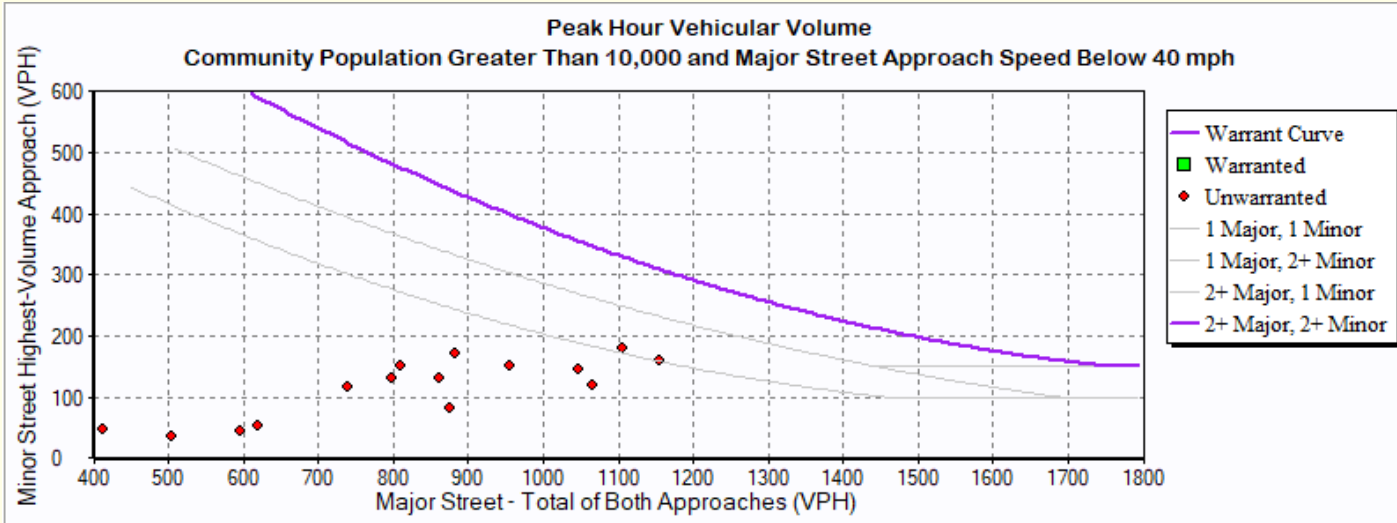
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	96	2
1:00	65	4
2:00	99	2
3:00	25	1
4:00	139	10
5:00	107	6

6:00	268	22
7:00	302	24
8:00	620	53
9:00	740	117
10:00	798	132
11:00	809	150
12:00	882	173
13:00	955	151
14:00	862	132
15:00	1,105	179
16:00	1,046	146
17:00	1,155	160
18:00	1,067	120
19:00	876	83
20:00	595	46
21:00	504	36
22:00	413	47
23:00	220	37

Warrant 4: Pedestrian Volume

2: Spreckels Ave & Norman Dr

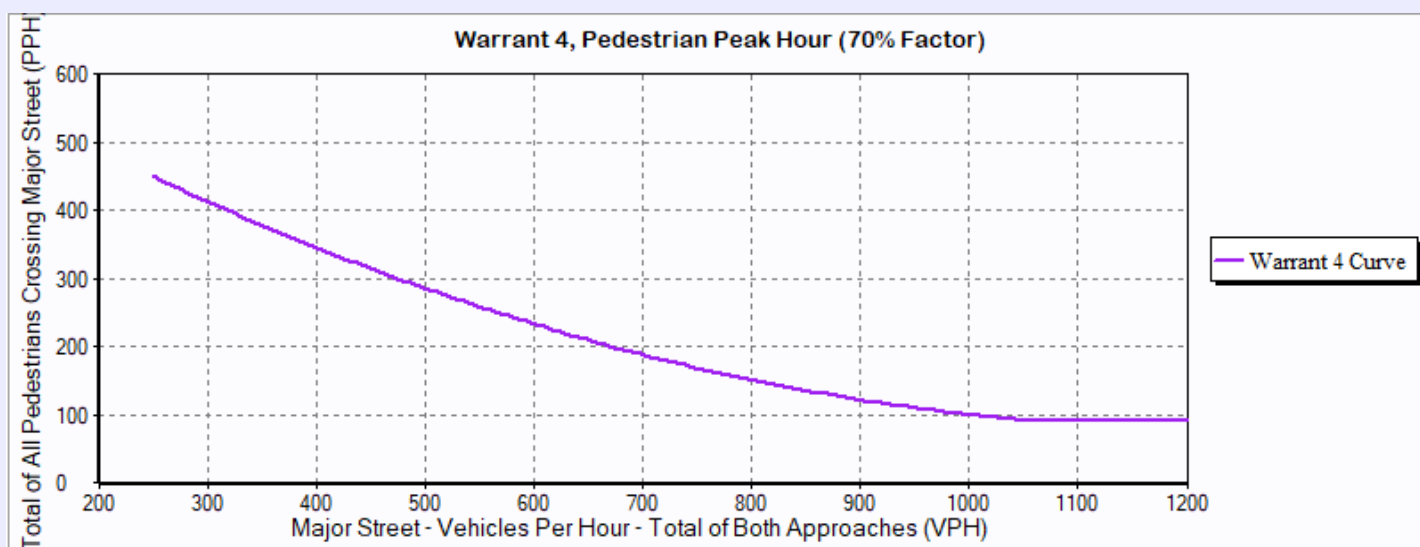
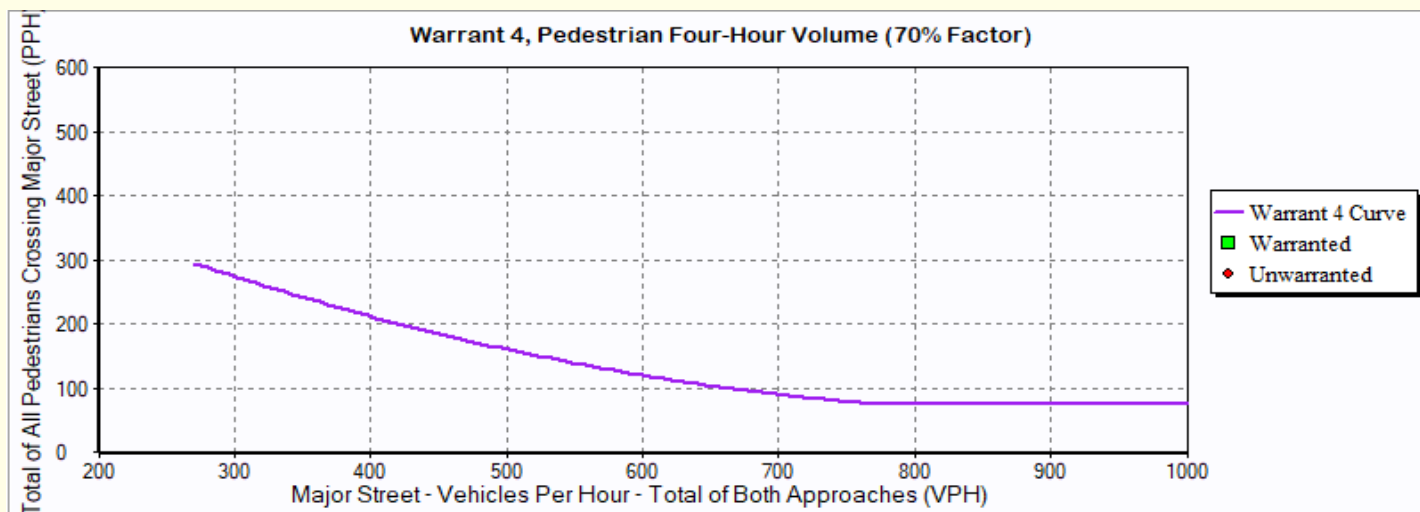
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 6 MET? **No**

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
EB Approach (Norman Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		11 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
Qualifying Crashes	0		
Adequate Alternative Trials?	No		

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Eastbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	96	2	No	No	0	No	0	No
00:15 to 01:15	87	1	No	No	0	No	0	No
00:30 to 01:30	94	1	No	No	0	No	0	No
00:45 to 01:45	81	2	No	No	0	No	0	No
01:00 to 02:00	65	4	No	No	0	No	0	No
01:15 to 02:15	58	4	No	No	0	No	0	No
01:30 to 02:30	57	3	No	No	0	No	0	No
01:45 to 02:45	99	3	No	No	0	No	0	No

02:00 to 03:00	99	2	No	No	0	No	0	No
02:15 to 03:15	93	2	No	No	0	No	0	No
02:30 to 03:30	71	3	No	No	0	No	0	No
02:45 to 03:45	28	2	No	No	0	No	0	No
03:00 to 04:00	25	1	No	No	0	No	0	No
03:15 to 04:15	37	2	No	No	0	No	0	No
03:30 to 04:30	60	4	No	No	0	No	0	No
03:45 to 04:45	82	9	No	No	0	No	0	No
04:00 to 05:00	139	10	No	No	0	No	0	No
04:15 to 05:15	150	11	No	No	0	No	0	No
04:30 to 05:30	138	10	No	No	0	No	0	No
04:45 to 05:45	138	5	No	No	0	No	0	No
05:00 to 06:00	107	6	No	No	0	No	0	No
05:15 to 06:15	113	8	No	No	0	No	0	No
05:30 to 06:30	138	11	No	No	0	No	0	No
05:45 to 06:45	192	15	No	No	0	No	0	No
06:00 to 07:00	268	22	No	No	0	No	0	No
06:15 to 07:15	298	22	No	No	0	No	0	No

06:30 to 07:30	326	24	No	No	0	No	0	No
06:45 to 07:45	323	28	No	No	0	No	0	No
07:00 to 08:00	302	24	No	No	0	No	0	No
07:15 to 08:15	341	24	No	No	0	No	0	No
07:30 to 08:30	394	25	No	No	0	No	0	No
07:45 to 08:45	477	33	No	No	0	No	0	No
08:00 to 09:00	620	53	No	No	0	No	0	No
08:15 to 09:15	734	80	No*	Yes*	0	No	0	No
08:30 to 09:30	797	94	No	Yes	0	No	0	No
08:45 to 09:45	800	111	No	Yes	0	No	0	No
09:00 to 10:00	740	117	No	Yes	0	No	0	No
09:15 to 10:15	711	114	No	No	0	No	0	No
09:30 to 10:30	733	120	No*	Yes*	0	No	0	No
09:45 to 10:45	749	122	No	Yes	0	No	0	No
10:00 to 11:00	798	132	No	Yes	0	No	0	No
10:15 to 11:15	776	132	No	Yes	0	No	0	No
10:30 to 11:30	779	148	No*	Yes*	0	No	0	No
10:45 to 11:45	791	141	No	Yes	0	No	0	No

11:00 to 12:00	809	150	No	Yes	0	No	0	No
11:15 to 12:15	863	162	Yes	Yes	0	No	0	No
11:30 to 12:30	895	157	No*	Yes*	0	No	0	No
11:45 to 12:45	898	182	Yes	Yes	0	No	0	No
12:00 to 13:00	882	173	Yes	Yes	0	No	0	No
12:15 to 13:15	900	187	Yes	Yes	0	No	0	No
12:30 to 13:30	903	187	Yes*	Yes*	0	No	0	No
12:45 to 13:45	934	161	Yes	Yes	0	No	0	No
13:00 to 14:00	955	151	No	Yes	0	No	0	No
13:15 to 14:15	928	134	No	Yes	0	No	0	No
13:30 to 14:30	914	127	No*	Yes*	0	No	0	No
13:45 to 14:45	888	126	No	Yes	0	No	0	No
14:00 to 15:00	862	132	No	Yes	0	No	0	No
14:15 to 15:15	885	132	No	Yes	0	No	0	No
14:30 to 15:30	924	160	Yes*	Yes*	0	No	0	No
14:45 to 15:45	1,051	172	Yes	Yes	0	No	0	No
15:00 to 16:00	1,105	179	Yes	Yes	0	No	0	No
15:15 to 16:15	1,167	177	Yes	Yes	0	No	0	No

15:30 to 16:30	1,139	157	No*	Yes*	0	No	0	No
15:45 to 16:45	1,054	156	No	Yes	0	No	0	No
16:00 to 17:00	1,046	146	No	Yes	0	No	0	No
16:15 to 17:15	1,044	145	No	Yes	0	No	0	No
16:30 to 17:30	1,077	152	No*	Yes*	0	No	0	No
16:45 to 17:45	1,129	153	No	Yes	0	No	0	No
17:00 to 18:00	1,155	160	Yes	Yes	0	No	0	No
17:15 to 18:15	1,143	176	Yes	Yes	0	No	0	No
17:30 to 18:30	1,111	152	No*	Yes*	0	No	0	No
17:45 to 18:45	1,097	134	No	Yes	0	No	0	No
18:00 to 19:00	1,067	120	No	Yes	0	No	0	No
18:15 to 19:15	1,035	88	No	Yes	0	No	0	No
18:30 to 19:30	1,028	89	No*	Yes*	0	No	0	No
18:45 to 19:45	946	87	No	Yes	0	No	0	No
19:00 to 20:00	876	83	No	Yes	0	No	0	No
19:15 to 20:15	793	83	No	Yes	0	No	0	No
19:30 to 20:30	718	70	No	No	0	No	0	No
19:45 to 20:45	659	60	No	No	0	No	0	No

20:00 to 21:00	595	46	No	No	0	No	0	No
20:15 to 21:15	577	35	No	No	0	No	0	No
20:30 to 21:30	545	34	No	No	0	No	0	No
20:45 to 21:45	530	33	No	No	0	No	0	No
21:00 to 22:00	504	36	No	No	0	No	0	No
21:15 to 22:15	470	40	No	No	0	No	0	No
21:30 to 22:30	469	41	No	No	0	No	0	No
21:45 to 22:45	434	46	No	No	0	No	0	No
22:00 to 23:00	413	47	No	No	0	No	0	No
22:15 to 23:15	367	55	No	No	0	No	0	No
22:30 to 23:30	295	51	No	No	0	No	0	No
22:45 to 23:45	266	44	No	No	0	No	0	No
23:00 to 00:00	220	37	No	No	0	No	0	No
23:15 to 00:15	178	19	No	No	0	No	0	No
23:30 to 00:30	143	13	No	No	0	No	0	No
23:45 to 00:45	102	8	No	No	0	No	0	No

Warrant 8: Roadway Network

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	EB
L	0.00		0.00
T	0.00	0.00	
R		0.00	0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,344	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,344	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

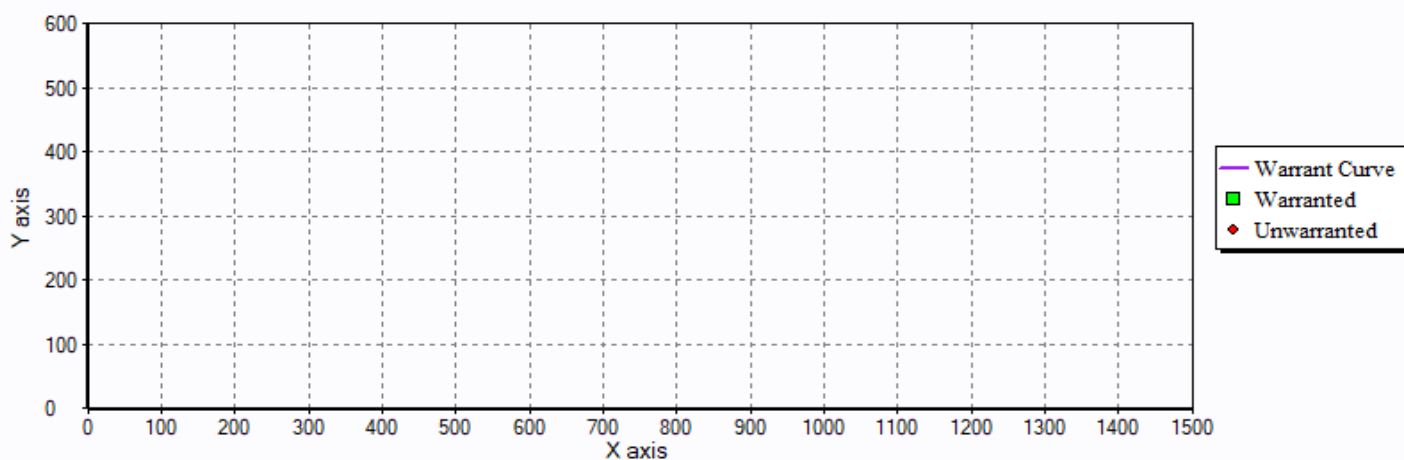
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	98	0	No	No
00:15 to 01:15	88	0	No	No
00:30 to 01:30	95	0	No	No
00:45 to 01:45	83	0	No	No
01:00 to 02:00	69	0	No	No
01:15 to 02:15	62	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	102	0	No	No
02:00 to 03:00	101	0	No	No
02:15 to 03:15	95	0	No	No
02:30 to 03:30	74	0	No	No
02:45 to 03:45	30	0	No	No
03:00 to 04:00	26	0	No	No
03:15 to 04:15	39	0	No	No
03:30 to 04:30	64	0	No	No
03:45 to 04:45	91	0	No	No
04:00 to 05:00	149	0	No	No
04:15 to 05:15	161	0	No	No
04:30 to 05:30	148	0	No	No
04:45 to 05:45	143	0	No	No
05:00 to 06:00	113	0	No	No

05:15 to 06:15	121	0	No	No
05:30 to 06:30	149	0	No	No
05:45 to 06:45	207	0	No	No
06:00 to 07:00	290	0	No	No
06:15 to 07:15	320	0	No	No
06:30 to 07:30	350	0	No	No
06:45 to 07:45	351	0	No	No
07:00 to 08:00	326	0	No	No
07:15 to 08:15	365	0	No	No
07:30 to 08:30	419	0	No	No
07:45 to 08:45	510	0	No	No
08:00 to 09:00	673	0	No	No
08:15 to 09:15	814	0	No	No
08:30 to 09:30	891	0	No	No
08:45 to 09:45	911	0	No	No
09:00 to 10:00	857	0	No	No
09:15 to 10:15	825	0	No	No
09:30 to 10:30	853	0	No	No
09:45 to 10:45	871	0	No	No
10:00 to 11:00	930	0	No	No
10:15 to 11:15	908	0	No	No
10:30 to 11:30	927	0	No	No
10:45 to 11:45	932	0	No	No
11:00 to 12:00	959	0	No	No
11:15 to 12:15	1,025	0	No	No
11:30 to 12:30	1,052	0	No	No
11:45 to 12:45	1,080	0	No	No
12:00 to 13:00	1,055	0	No	No
12:15 to 13:15	1,087	0	No	No
12:30 to 13:30	1,090	0	No	No
12:45 to 13:45	1,095	0	No	No
13:00 to 14:00	1,106	0	No	No
13:15 to 14:15	1,062	0	No	No
13:30 to 14:30	1,041	0	No	No
13:45 to 14:45	1,014	0	No	No
14:00 to 15:00	994	0	No	No
14:15 to 15:15	1,017	0	No	No

14:30 to 15:30	1,084	0	No	No
14:45 to 15:45	1,223	0	No	No
15:00 to 16:00	1,284	0	No	No
15:15 to 16:15	1,344	0	No*	No*
15:30 to 16:30	1,296	0	No	No
15:45 to 16:45	1,210	0	No	No
16:00 to 17:00	1,192	0	No	No
16:15 to 17:15	1,189	0	No	No
16:30 to 17:30	1,229	0	No	No
16:45 to 17:45	1,282	0	No	No
17:00 to 18:00	1,315	0	No	No
17:15 to 18:15	1,319	0	No	No
17:30 to 18:30	1,263	0	No	No
17:45 to 18:45	1,231	0	No	No
18:00 to 19:00	1,187	0	No	No
18:15 to 19:15	1,123	0	No	No
18:30 to 19:30	1,117	0	No	No
18:45 to 19:45	1,033	0	No	No
19:00 to 20:00	959	0	No	No
19:15 to 20:15	876	0	No	No
19:30 to 20:30	788	0	No	No
19:45 to 20:45	719	0	No	No
20:00 to 21:00	641	0	No	No
20:15 to 21:15	612	0	No	No
20:30 to 21:30	579	0	No	No
20:45 to 21:45	563	0	No	No
21:00 to 22:00	540	0	No	No
21:15 to 22:15	510	0	No	No
21:30 to 22:30	510	0	No	No
21:45 to 22:45	480	0	No	No
22:00 to 23:00	460	0	No	No
22:15 to 23:15	422	0	No	No
22:30 to 23:30	346	0	No	No
22:45 to 23:45	310	0	No	No
23:00 to 00:00	257	0	No	No
23:15 to 00:15	197	0	No	No
23:30 to 00:30	156	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 4 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	East Bound Bicycle Volumes	North Bound Ped Volumes	East Bound Ped Volumes	Major Street Veh Vol > 210	Minor Street Avg(Veh + Ped + Bicycle) > 200	Minor Street Delay > 30
11:15 to 12:15	863	162	0	0	0	0	False	No	No
12:15 to 13:15	900	187	0	0	0	0	False	No	No
14:30 to 15:30	924	160	0	0	0	0	False	No	No
17:00 to 18:00	1,155	160	0	0	0	0	False	No	No

Warrants Summary Report

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	5 Hours met (8 required)
Condition A and B Met?	No	4 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	2 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 11 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%

Condition B Met? **No** 5 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	96	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	87	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	94	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	81	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		65	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		58	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		57	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		98	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		98	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		92	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		70	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		28	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		25	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		37	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		60	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		81	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		136	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		147	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		135	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		136	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		106	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		111	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		135	11		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

05:45 to 06:45		187	15		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:00 to 07:00		261	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:15 to 07:15		290	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:30 to 07:30		317	24		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:45 to 07:45		314	28		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

07:00 to 08:00		294	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:15 to 08:15		333	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:30 to 08:30		386	25	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:45 to 08:45		468	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:00 to 09:00		609	53	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:15 to 09:15		722	80	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		783	94	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:45 to 09:45		786	111	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

09:00 to 10:00		727	117	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

09:15 to 10:15		698	114	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			

09:30 to 10:30		720	120	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

09:45 to 10:45		735	122	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

10:00 to 11:00		783		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		760		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		763		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		775		141		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		793		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		847		162		No	No	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		879		157		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		882		182		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		866		173		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		884		187		No	No	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		887		187		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		918		161		No	Yes*	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		938		151		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:15 to 14:15		911		134		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:30 to 14:30		897		127		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:45 to 14:45		871		126		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:00 to 15:00		846		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:15 to 15:15		869		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

14:30 to 15:30		907		160		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:45 to 15:45		1,032		172		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:00 to 16:00		1,085		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:15 to 16:15		1,146		177		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:30 to 16:30		1,118		157		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:45 to 16:45		1,034		156		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

16:00 to 17:00		1,025		146		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
16:15 to 17:15		1,022		145		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
16:30 to 17:30		1,054		152		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
16:45 to 17:45		1,105		153		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
17:00 to 18:00		1,130		160		No	Yes	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
17:15 to 18:15		1,118		176		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

17:30 to 18:30		1,087	152	No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:45 to 18:45		1,073	134	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:00 to 19:00		1,044	120	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:15 to 19:15		1,013	88	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:30 to 19:30		1,007	89	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:45 to 19:45		927	87	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

19:00 to 20:00		859		83		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		777		83		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		703		70		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
19:45 to 20:45		645		60		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
20:00 to 21:00		582		46		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
20:15 to 21:15		564		35		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					

20:30 to 21:30		533	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:45 to 21:45		519	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:00 to 22:00		494	36	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:15 to 22:15		462	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:30 to 22:30		461	41	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:45 to 22:45		426	46	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		405	47	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		359	55	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		288	51	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		259	44	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		215	37	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		175	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		141	13		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		102	8		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

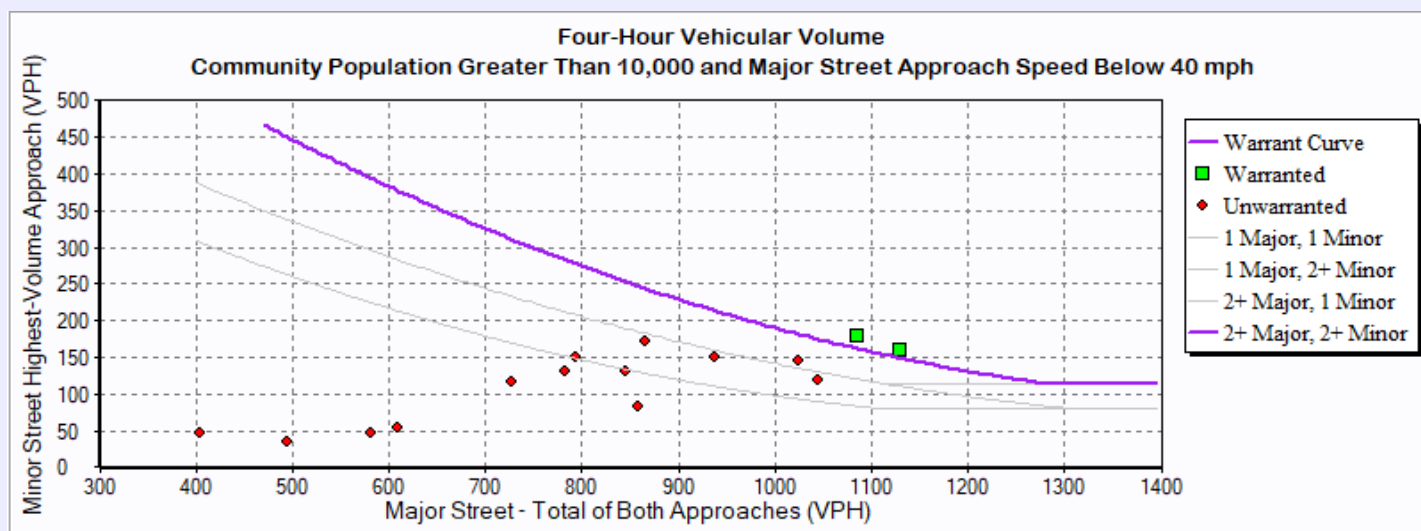
	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 2 Met? **No**

Details:

Notes 2 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	96	2
01:00:00 - 02:00:00	65	4
02:00:00 - 03:00:00	98	2
03:00:00 - 04:00:00	25	1
04:00:00 - 05:00:00	136	10
05:00:00 - 06:00:00	106	6
06:00:00 - 07:00:00	261	22
07:00:00 - 08:00:00	294	24
08:00:00 - 09:00:00	609	53
09:00:00 - 10:00:00	727	117
10:00:00 - 11:00:00	783	132
11:00:00 - 12:00:00	793	150
12:00:00 - 13:00:00	866	173
13:00:00 - 14:00:00	938	151
14:00:00 - 15:00:00	846	132
15:00:00 - 16:00:00	1085	179
16:00:00 - 17:00:00	1025	146
17:00:00 - 18:00:00	1130	160
18:00:00 - 19:00:00	1044	120
19:00:00 - 20:00:00	859	83
20:00:00 - 21:00:00	582	46
21:00:00 - 22:00:00	494	36
22:00:00 - 23:00:00	405	47
23:00:00 - 00:00:00	215	37

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
15:00:00 - 16:00:00	1,085.00	179.00
17:00:00 - 18:00:00	1,130.00	160.00

Warrant 3: Peak Hour

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

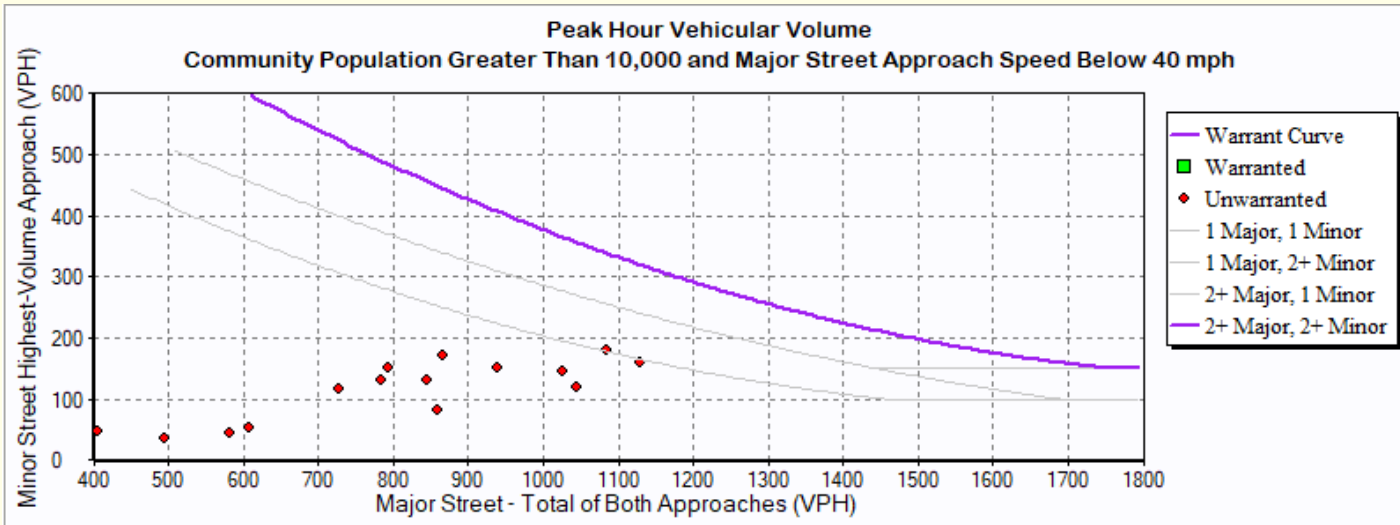
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	96	2
1:00	65	4
2:00	98	2
3:00	25	1
4:00	136	10
5:00	106	6

6:00	261	22
7:00	294	24
8:00	609	53
9:00	727	117
10:00	783	132
11:00	793	150
12:00	866	173
13:00	938	151
14:00	846	132
15:00	1,085	179
16:00	1,025	146
17:00	1,130	160
18:00	1,044	120
19:00	859	83
20:00	582	46
21:00	494	36
22:00	405	47
23:00	215	37

Warrant 4: Pedestrian Volume

2: Spreckels Ave & Norman Dr

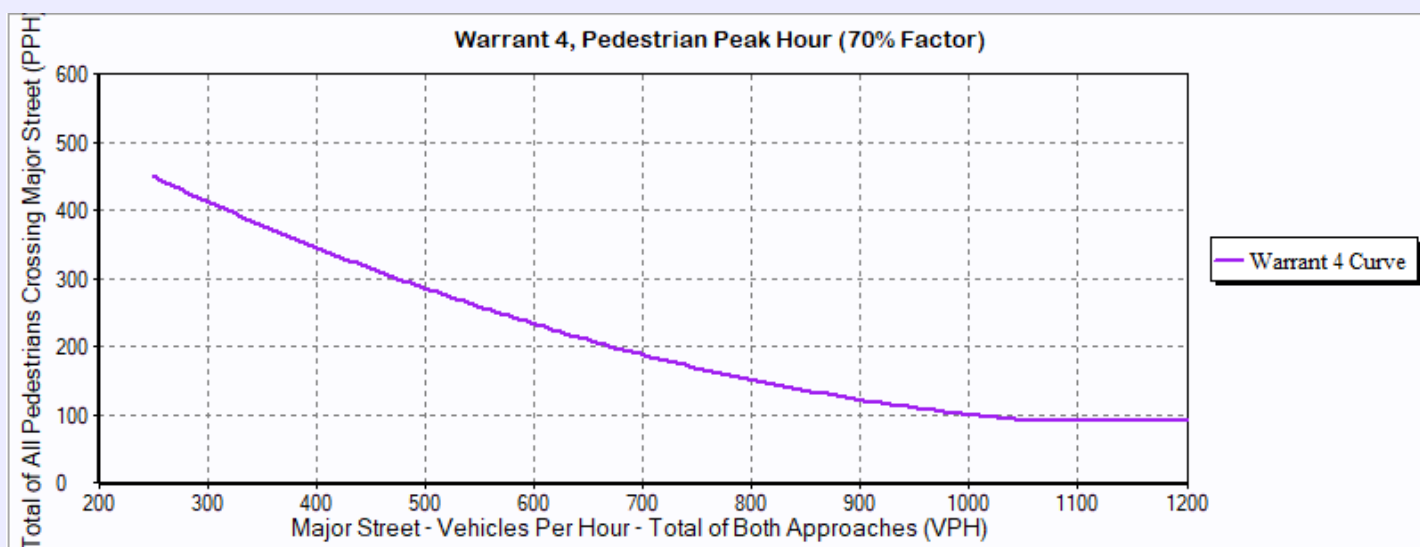
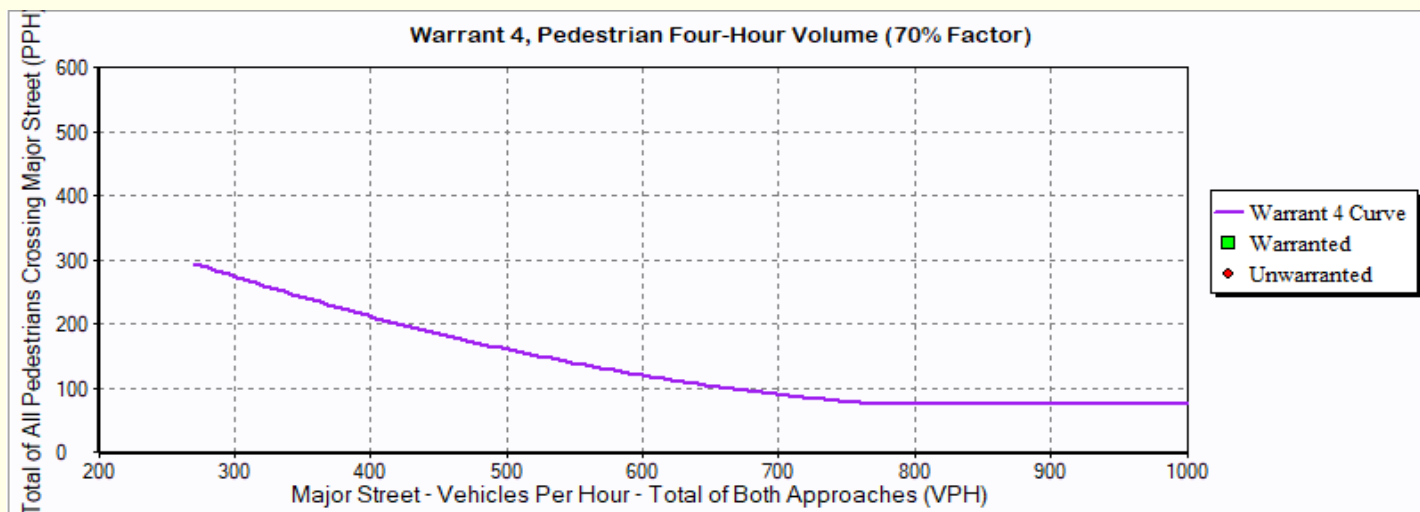
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 6 MET? **No**

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
EB Approach (Norman Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		11 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Eastbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	96	2	No	No	0	No	0	No
00:15 to 01:15	87	1	No	No	0	No	0	No
00:30 to 01:30	94	1	No	No	0	No	0	No
00:45 to 01:45	81	2	No	No	0	No	0	No
01:00 to 02:00	65	4	No	No	0	No	0	No
01:15 to 02:15	58	4	No	No	0	No	0	No
01:30 to 02:30	57	3	No	No	0	No	0	No
01:45 to 02:45	98	3	No	No	0	No	0	No

02:00 to 03:00	98	2	No	No	0	No	0	No
02:15 to 03:15	92	2	No	No	0	No	0	No
02:30 to 03:30	70	3	No	No	0	No	0	No
02:45 to 03:45	28	2	No	No	0	No	0	No
03:00 to 04:00	25	1	No	No	0	No	0	No
03:15 to 04:15	37	2	No	No	0	No	0	No
03:30 to 04:30	60	4	No	No	0	No	0	No
03:45 to 04:45	81	9	No	No	0	No	0	No
04:00 to 05:00	136	10	No	No	0	No	0	No
04:15 to 05:15	147	11	No	No	0	No	0	No
04:30 to 05:30	135	10	No	No	0	No	0	No
04:45 to 05:45	136	5	No	No	0	No	0	No
05:00 to 06:00	106	6	No	No	0	No	0	No
05:15 to 06:15	111	8	No	No	0	No	0	No
05:30 to 06:30	135	11	No	No	0	No	0	No
05:45 to 06:45	187	15	No	No	0	No	0	No
06:00 to 07:00	261	22	No	No	0	No	0	No
06:15 to 07:15	290	22	No	No	0	No	0	No

06:30 to 07:30	317	24	No	No	0	No	0	No
06:45 to 07:45	314	28	No	No	0	No	0	No
07:00 to 08:00	294	24	No	No	0	No	0	No
07:15 to 08:15	333	24	No	No	0	No	0	No
07:30 to 08:30	386	25	No	No	0	No	0	No
07:45 to 08:45	468	33	No	No	0	No	0	No
08:00 to 09:00	609	53	No	No	0	No	0	No
08:15 to 09:15	722	80	No*	Yes*	0	No	0	No
08:30 to 09:30	783	94	No	Yes	0	No	0	No
08:45 to 09:45	786	111	No	Yes	0	No	0	No
09:00 to 10:00	727	117	No	Yes	0	No	0	No
09:15 to 10:15	698	114	No	No	0	No	0	No
09:30 to 10:30	720	120	No*	Yes*	0	No	0	No
09:45 to 10:45	735	122	No	Yes	0	No	0	No
10:00 to 11:00	783	132	No	Yes	0	No	0	No
10:15 to 11:15	760	132	No	Yes	0	No	0	No
10:30 to 11:30	763	148	No*	Yes*	0	No	0	No
10:45 to 11:45	775	141	No	Yes	0	No	0	No

11:00 to 12:00	793	150	No	Yes	0	No	0	No
11:15 to 12:15	847	162	Yes	Yes	0	No	0	No
11:30 to 12:30	879	157	No*	Yes*	0	No	0	No
11:45 to 12:45	882	182	Yes	Yes	0	No	0	No
12:00 to 13:00	866	173	Yes	Yes	0	No	0	No
12:15 to 13:15	884	187	Yes	Yes	0	No	0	No
12:30 to 13:30	887	187	Yes*	Yes*	0	No	0	No
12:45 to 13:45	918	161	Yes	Yes	0	No	0	No
13:00 to 14:00	938	151	No	Yes	0	No	0	No
13:15 to 14:15	911	134	No	Yes	0	No	0	No
13:30 to 14:30	897	127	No*	Yes*	0	No	0	No
13:45 to 14:45	871	126	No	Yes	0	No	0	No
14:00 to 15:00	846	132	No	Yes	0	No	0	No
14:15 to 15:15	869	132	No	Yes	0	No	0	No
14:30 to 15:30	907	160	Yes*	Yes*	0	No	0	No
14:45 to 15:45	1,032	172	Yes	Yes	0	No	0	No
15:00 to 16:00	1,085	179	Yes	Yes	0	No	0	No
15:15 to 16:15	1,146	177	Yes	Yes	0	No	0	No

15:30 to 16:30	1,118	157	No*	Yes*	0	No	0	No
15:45 to 16:45	1,034	156	No	Yes	0	No	0	No
16:00 to 17:00	1,025	146	No	Yes	0	No	0	No
16:15 to 17:15	1,022	145	No	Yes	0	No	0	No
16:30 to 17:30	1,054	152	No*	Yes*	0	No	0	No
16:45 to 17:45	1,105	153	No	Yes	0	No	0	No
17:00 to 18:00	1,130	160	Yes	Yes	0	No	0	No
17:15 to 18:15	1,118	176	Yes	Yes	0	No	0	No
17:30 to 18:30	1,087	152	No*	Yes*	0	No	0	No
17:45 to 18:45	1,073	134	No	Yes	0	No	0	No
18:00 to 19:00	1,044	120	No	Yes	0	No	0	No
18:15 to 19:15	1,013	88	No	Yes	0	No	0	No
18:30 to 19:30	1,007	89	No*	Yes*	0	No	0	No
18:45 to 19:45	927	87	No	Yes	0	No	0	No
19:00 to 20:00	859	83	No	Yes	0	No	0	No
19:15 to 20:15	777	83	No	Yes	0	No	0	No
19:30 to 20:30	703	70	No	No	0	No	0	No
19:45 to 20:45	645	60	No	No	0	No	0	No

20:00 to 21:00	582	46	No	No	0	No	0	No
20:15 to 21:15	564	35	No	No	0	No	0	No
20:30 to 21:30	533	34	No	No	0	No	0	No
20:45 to 21:45	519	33	No	No	0	No	0	No
21:00 to 22:00	494	36	No	No	0	No	0	No
21:15 to 22:15	462	40	No	No	0	No	0	No
21:30 to 22:30	461	41	No	No	0	No	0	No
21:45 to 22:45	426	46	No	No	0	No	0	No
22:00 to 23:00	405	47	No	No	0	No	0	No
22:15 to 23:15	359	55	No	No	0	No	0	No
22:30 to 23:30	288	51	No	No	0	No	0	No
22:45 to 23:45	259	44	No	No	0	No	0	No
23:00 to 00:00	215	37	No	No	0	No	0	No
23:15 to 00:15	175	19	No	No	0	No	0	No
23:30 to 00:30	141	13	No	No	0	No	0	No
23:45 to 00:45	102	8	No	No	0	No	0	No

Warrant 8: Roadway Network

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)

	NB	SB	EB
L	0.00		0.00
T	0.00	0.00	
R		0.00	0.00

Condition A, Total Entering Volume

Condition B, Non-normal Business Day

		Existing	Future
Existing Peak Hour	1,323	Highest Hour	0
Years	0.00	Second Highest Hour	0
Future Peak Hour	1,323	Third Highest Hour	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00
		Years	0.00

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

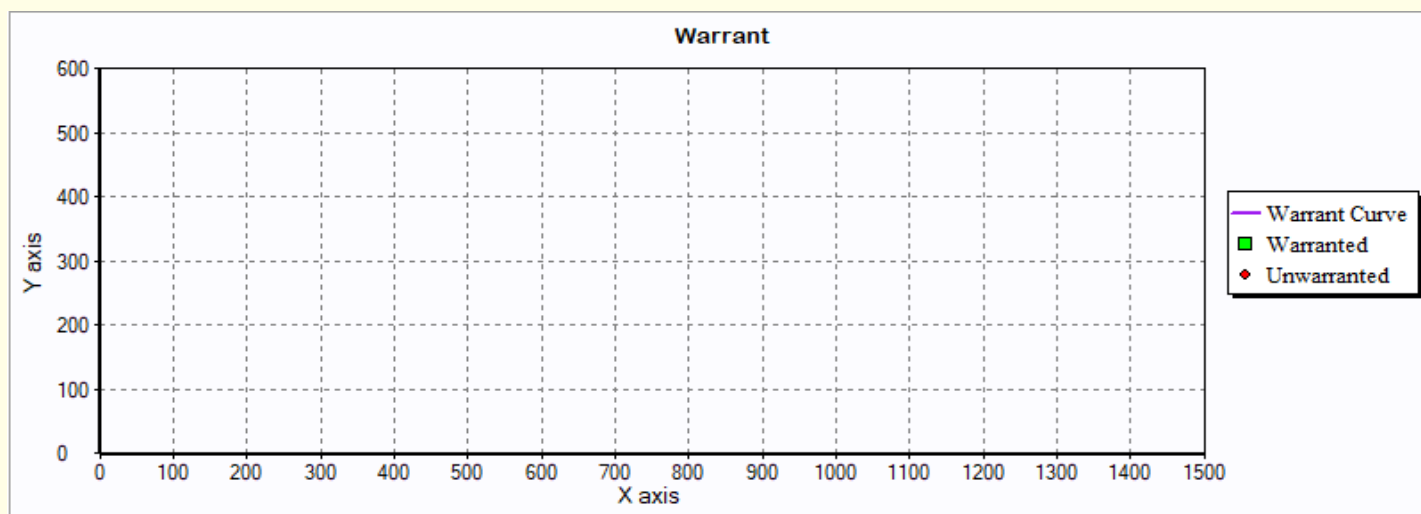
Distance from the center of the track to the stop or yield line Interpolated

Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	98	0	No	No
00:15 to 01:15	88	0	No	No
00:30 to 01:30	95	0	No	No
00:45 to 01:45	83	0	No	No
01:00 to 02:00	69	0	No	No
01:15 to 02:15	62	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	101	0	No	No
02:00 to 03:00	100	0	No	No
02:15 to 03:15	94	0	No	No
02:30 to 03:30	73	0	No	No
02:45 to 03:45	30	0	No	No
03:00 to 04:00	26	0	No	No
03:15 to 04:15	39	0	No	No
03:30 to 04:30	64	0	No	No
03:45 to 04:45	90	0	No	No
04:00 to 05:00	146	0	No	No
04:15 to 05:15	158	0	No	No
04:30 to 05:30	145	0	No	No
04:45 to 05:45	141	0	No	No
05:00 to 06:00	112	0	No	No

05:15 to 06:15	119	0	No	No
05:30 to 06:30	146	0	No	No
05:45 to 06:45	202	0	No	No
06:00 to 07:00	283	0	No	No
06:15 to 07:15	312	0	No	No
06:30 to 07:30	341	0	No	No
06:45 to 07:45	342	0	No	No
07:00 to 08:00	318	0	No	No
07:15 to 08:15	357	0	No	No
07:30 to 08:30	411	0	No	No
07:45 to 08:45	501	0	No	No
08:00 to 09:00	662	0	No	No
08:15 to 09:15	802	0	No	No
08:30 to 09:30	877	0	No	No
08:45 to 09:45	897	0	No	No
09:00 to 10:00	844	0	No	No
09:15 to 10:15	812	0	No	No
09:30 to 10:30	840	0	No	No
09:45 to 10:45	857	0	No	No
10:00 to 11:00	915	0	No	No
10:15 to 11:15	892	0	No	No
10:30 to 11:30	911	0	No	No
10:45 to 11:45	916	0	No	No
11:00 to 12:00	943	0	No	No
11:15 to 12:15	1,009	0	No	No
11:30 to 12:30	1,036	0	No	No
11:45 to 12:45	1,064	0	No	No
12:00 to 13:00	1,039	0	No	No
12:15 to 13:15	1,071	0	No	No
12:30 to 13:30	1,074	0	No	No
12:45 to 13:45	1,079	0	No	No
13:00 to 14:00	1,089	0	No	No
13:15 to 14:15	1,045	0	No	No
13:30 to 14:30	1,024	0	No	No
13:45 to 14:45	997	0	No	No
14:00 to 15:00	978	0	No	No
14:15 to 15:15	1,001	0	No	No

14:30 to 15:30	1,067	0	No	No
14:45 to 15:45	1,204	0	No	No
15:00 to 16:00	1,264	0	No	No
15:15 to 16:15	1,323	0	No*	No*
15:30 to 16:30	1,275	0	No	No
15:45 to 16:45	1,190	0	No	No
16:00 to 17:00	1,171	0	No	No
16:15 to 17:15	1,167	0	No	No
16:30 to 17:30	1,206	0	No	No
16:45 to 17:45	1,258	0	No	No
17:00 to 18:00	1,290	0	No	No
17:15 to 18:15	1,294	0	No	No
17:30 to 18:30	1,239	0	No	No
17:45 to 18:45	1,207	0	No	No
18:00 to 19:00	1,164	0	No	No
18:15 to 19:15	1,101	0	No	No
18:30 to 19:30	1,096	0	No	No
18:45 to 19:45	1,014	0	No	No
19:00 to 20:00	942	0	No	No
19:15 to 20:15	860	0	No	No
19:30 to 20:30	773	0	No	No
19:45 to 20:45	705	0	No	No
20:00 to 21:00	628	0	No	No
20:15 to 21:15	599	0	No	No
20:30 to 21:30	567	0	No	No
20:45 to 21:45	552	0	No	No
21:00 to 22:00	530	0	No	No
21:15 to 22:15	502	0	No	No
21:30 to 22:30	502	0	No	No
21:45 to 22:45	472	0	No	No
22:00 to 23:00	452	0	No	No
22:15 to 23:15	414	0	No	No
22:30 to 23:30	339	0	No	No
22:45 to 23:45	303	0	No	No
23:00 to 00:00	252	0	No	No
23:15 to 00:15	194	0	No	No
23:30 to 00:30	154	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 4 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	East Bound Bicycle Volumes	North Bound Ped Volumes	East Bound Ped Volumes	Major Street Veh Vol > 210	Minor Street Avg(Veh + Ped + Bicycle) > 200	Minor Street Delay > 30
11:15 to 12:15	847	162	0	0	0	0	False	No	No
12:15 to 13:15	884	187	0	0	0	0	False	No	No
14:30 to 15:30	907	160	0	0	0	0	False	No	No
17:00 to 18:00	1,130	160	0	0	0	0	False	No	No

Warrants Summary Report

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	6 Hours met (8 required)
Condition A and B Met?	No	4 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	2 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 11 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave
Major Street Direction: NB/SB
Minor Street Direction: EB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%
Condition B Met? **No** 6 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	96	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	87	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	94	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	81	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		65	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		58	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		57	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		99	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		99	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		93	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		71	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		28	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		25	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		37	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		60	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		82	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		139	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		150	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		138	10	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		138	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		107	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		113	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		138	11		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

05:45 to 06:45		192	15		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:00 to 07:00		268	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:15 to 07:15		298	22		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:30 to 07:30		326	24		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

06:45 to 07:45		323	28		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

07:00 to 08:00		302	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		341	24	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		394	25	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		477	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		620	53	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		734	80	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		797		94		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
08:45 to 09:45		800		111		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:00 to 10:00		740		117		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:15 to 10:15		711		114		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
09:30 to 10:30		733		120		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:45 to 10:45		749		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		798		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		776		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		779		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		791		141		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		809		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		863		162		No	No	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		895		157		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		898		182		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		882		173		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		900		187		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		903		187		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		934		161		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		955		151		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:15 to 14:15		928		134		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:30 to 14:30		914		127		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
13:45 to 14:45		888		126		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:00 to 15:00		862		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:15 to 15:15		885		132		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

14:30 to 15:30		924		160		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
14:45 to 15:45		1,051		172		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:00 to 16:00		1,105		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:15 to 16:15		1,167		177		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:30 to 16:30		1,139		157		No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
15:45 to 16:45		1,054		156		No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

16:00 to 17:00		1,046	146	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:15 to 17:15		1,044	145	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:30 to 17:30		1,077	152	No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:45 to 17:45		1,129	153	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:00 to 18:00		1,155	160	No	Yes	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:15 to 18:15		1,143	176	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

17:30 to 18:30		1,111	152	No	Yes*	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:45 to 18:45		1,097	134	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:00 to 19:00		1,067	120	No	Yes	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:15 to 19:15		1,035	88	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:30 to 19:30		1,028	89	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:45 to 19:45		946	87	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

19:00 to 20:00		876		83		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		793		83		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		718		70		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
19:45 to 20:45		659		60		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
20:00 to 21:00		595		46		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					
20:15 to 21:15		577		35		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No					

20:30 to 21:30		545	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:45 to 21:45		530	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:00 to 22:00		504	36	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:15 to 22:15		470	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:30 to 22:30		469	41	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:45 to 22:45		434	46	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		413	47	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		367	55	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		295	51	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		266	44	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		220	37	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		178	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		143	13		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		102	8		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

2: Spreckels Ave & Norman Dr

Intersection Information:

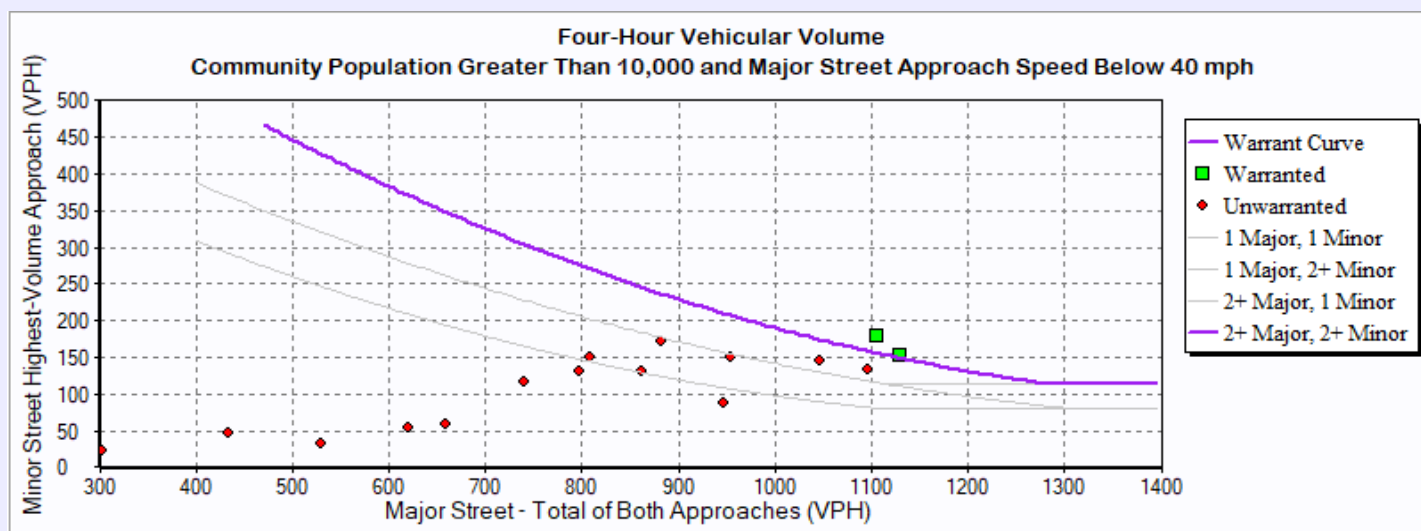
	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 2 Met? **No**

Details:

Notes 2 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	96	2
01:00:00 - 02:00:00	65	4
02:00:00 - 03:00:00	99	2
03:00:00 - 04:00:00	25	1
04:00:00 - 05:00:00	139	10
05:00:00 - 06:00:00	107	6
06:00:00 - 07:00:00	268	22
07:00:00 - 08:00:00	302	24
08:00:00 - 09:00:00	620	53
09:00:00 - 10:00:00	740	117
10:00:00 - 11:00:00	798	132
11:00:00 - 12:00:00	809	150
12:00:00 - 13:00:00	882	173
13:00:00 - 14:00:00	955	151
14:00:00 - 15:00:00	862	132
15:00:00 - 16:00:00	1105	179
16:00:00 - 17:00:00	1046	146
17:00:00 - 18:00:00	1155	160
18:00:00 - 19:00:00	1067	120
19:00:00 - 20:00:00	876	83
20:00:00 - 21:00:00	595	46
21:00:00 - 22:00:00	504	36
22:00:00 - 23:00:00	413	47
23:00:00 - 00:00:00	220	37

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
15:00:00 - 16:00:00	1,105.00	179.00
16:45:00 - 17:45:00	1,129.00	153.00

Warrant 3: Peak Hour

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

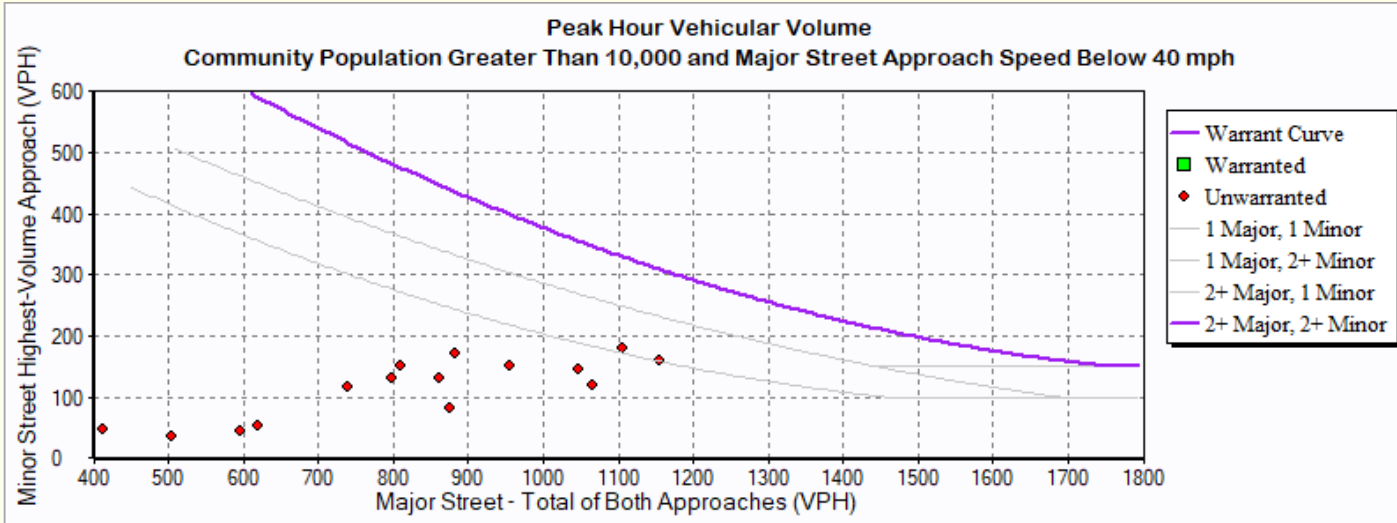
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	96	2
1:00	65	4
2:00	99	2
3:00	25	1
4:00	139	10
5:00	107	6

6:00	268	22
7:00	302	24
8:00	620	53
9:00	740	117
10:00	798	132
11:00	809	150
12:00	882	173
13:00	955	151
14:00	862	132
15:00	1,105	179
16:00	1,046	146
17:00	1,155	160
18:00	1,067	120
19:00	876	83
20:00	595	46
21:00	504	36
22:00	413	47
23:00	220	37

Warrant 4: Pedestrian Volume

2: Spreckels Ave & Norman Dr

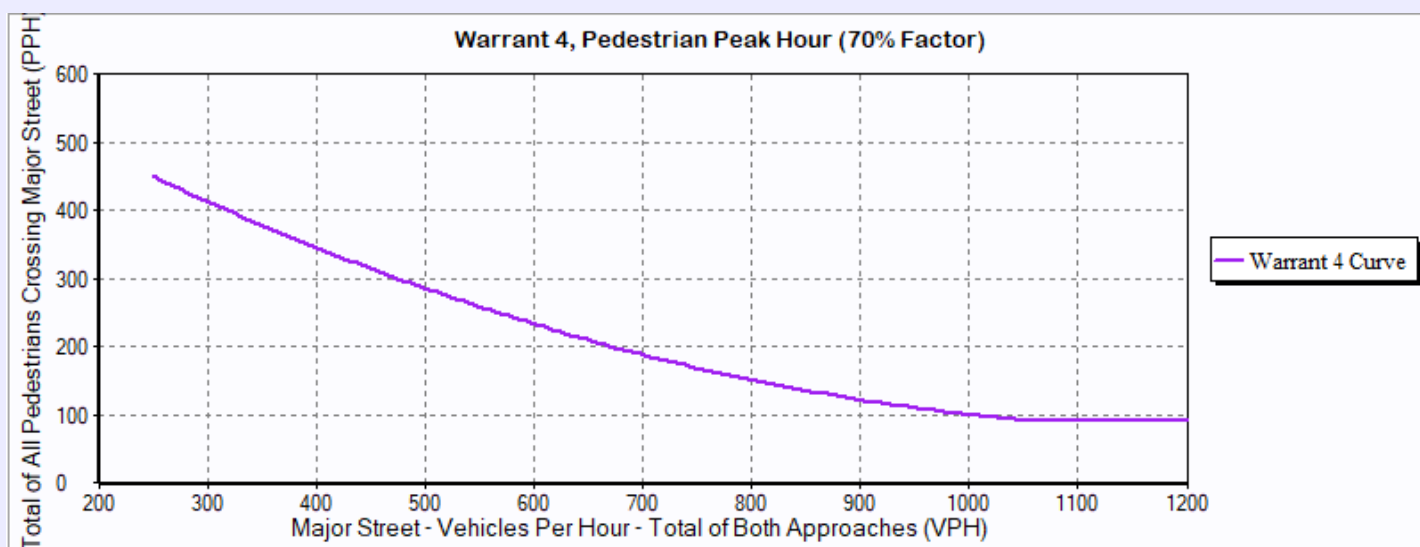
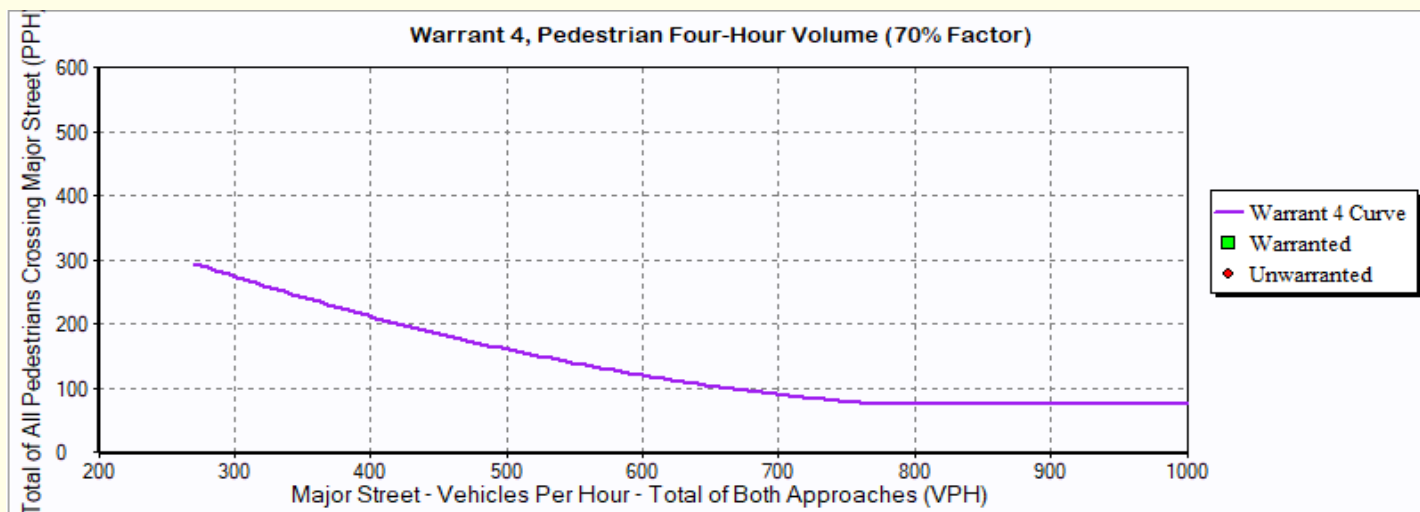
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 6 MET? **No**

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
EB Approach (Norman Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		11 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Eastbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	96	2	No	No	0	No	0	No
00:15 to 01:15	87	1	No	No	0	No	0	No
00:30 to 01:30	94	1	No	No	0	No	0	No
00:45 to 01:45	81	2	No	No	0	No	0	No
01:00 to 02:00	65	4	No	No	0	No	0	No
01:15 to 02:15	58	4	No	No	0	No	0	No
01:30 to 02:30	57	3	No	No	0	No	0	No
01:45 to 02:45	99	3	No	No	0	No	0	No

02:00 to 03:00	99	2	No	No	0	No	0	No
02:15 to 03:15	93	2	No	No	0	No	0	No
02:30 to 03:30	71	3	No	No	0	No	0	No
02:45 to 03:45	28	2	No	No	0	No	0	No
03:00 to 04:00	25	1	No	No	0	No	0	No
03:15 to 04:15	37	2	No	No	0	No	0	No
03:30 to 04:30	60	4	No	No	0	No	0	No
03:45 to 04:45	82	9	No	No	0	No	0	No
04:00 to 05:00	139	10	No	No	0	No	0	No
04:15 to 05:15	150	11	No	No	0	No	0	No
04:30 to 05:30	138	10	No	No	0	No	0	No
04:45 to 05:45	138	5	No	No	0	No	0	No
05:00 to 06:00	107	6	No	No	0	No	0	No
05:15 to 06:15	113	8	No	No	0	No	0	No
05:30 to 06:30	138	11	No	No	0	No	0	No
05:45 to 06:45	192	15	No	No	0	No	0	No
06:00 to 07:00	268	22	No	No	0	No	0	No
06:15 to 07:15	298	22	No	No	0	No	0	No

06:30 to 07:30	326	24	No	No	0	No	0	No
06:45 to 07:45	323	28	No	No	0	No	0	No
07:00 to 08:00	302	24	No	No	0	No	0	No
07:15 to 08:15	341	24	No	No	0	No	0	No
07:30 to 08:30	394	25	No	No	0	No	0	No
07:45 to 08:45	477	33	No	No	0	No	0	No
08:00 to 09:00	620	53	No	No	0	No	0	No
08:15 to 09:15	734	80	No*	Yes*	0	No	0	No
08:30 to 09:30	797	94	No	Yes	0	No	0	No
08:45 to 09:45	800	111	No	Yes	0	No	0	No
09:00 to 10:00	740	117	No	Yes	0	No	0	No
09:15 to 10:15	711	114	No	No	0	No	0	No
09:30 to 10:30	733	120	No*	Yes*	0	No	0	No
09:45 to 10:45	749	122	No	Yes	0	No	0	No
10:00 to 11:00	798	132	No	Yes	0	No	0	No
10:15 to 11:15	776	132	No	Yes	0	No	0	No
10:30 to 11:30	779	148	No*	Yes*	0	No	0	No
10:45 to 11:45	791	141	No	Yes	0	No	0	No

11:00 to 12:00	809	150	No	Yes	0	No	0	No
11:15 to 12:15	863	162	Yes	Yes	0	No	0	No
11:30 to 12:30	895	157	No*	Yes*	0	No	0	No
11:45 to 12:45	898	182	Yes	Yes	0	No	0	No
12:00 to 13:00	882	173	Yes	Yes	0	No	0	No
12:15 to 13:15	900	187	Yes	Yes	0	No	0	No
12:30 to 13:30	903	187	Yes*	Yes*	0	No	0	No
12:45 to 13:45	934	161	Yes	Yes	0	No	0	No
13:00 to 14:00	955	151	No	Yes	0	No	0	No
13:15 to 14:15	928	134	No	Yes	0	No	0	No
13:30 to 14:30	914	127	No*	Yes*	0	No	0	No
13:45 to 14:45	888	126	No	Yes	0	No	0	No
14:00 to 15:00	862	132	No	Yes	0	No	0	No
14:15 to 15:15	885	132	No	Yes	0	No	0	No
14:30 to 15:30	924	160	Yes*	Yes*	0	No	0	No
14:45 to 15:45	1,051	172	Yes	Yes	0	No	0	No
15:00 to 16:00	1,105	179	Yes	Yes	0	No	0	No
15:15 to 16:15	1,167	177	Yes	Yes	0	No	0	No

15:30 to 16:30	1,139	157	No*	Yes*	0	No	0	No
15:45 to 16:45	1,054	156	No	Yes	0	No	0	No
16:00 to 17:00	1,046	146	No	Yes	0	No	0	No
16:15 to 17:15	1,044	145	No	Yes	0	No	0	No
16:30 to 17:30	1,077	152	No*	Yes*	0	No	0	No
16:45 to 17:45	1,129	153	No	Yes	0	No	0	No
17:00 to 18:00	1,155	160	Yes	Yes	0	No	0	No
17:15 to 18:15	1,143	176	Yes	Yes	0	No	0	No
17:30 to 18:30	1,111	152	No*	Yes*	0	No	0	No
17:45 to 18:45	1,097	134	No	Yes	0	No	0	No
18:00 to 19:00	1,067	120	No	Yes	0	No	0	No
18:15 to 19:15	1,035	88	No	Yes	0	No	0	No
18:30 to 19:30	1,028	89	No*	Yes*	0	No	0	No
18:45 to 19:45	946	87	No	Yes	0	No	0	No
19:00 to 20:00	876	83	No	Yes	0	No	0	No
19:15 to 20:15	793	83	No	Yes	0	No	0	No
19:30 to 20:30	718	70	No	No	0	No	0	No
19:45 to 20:45	659	60	No	No	0	No	0	No

20:00 to 21:00	595	46	No	No	0	No	0	No
20:15 to 21:15	577	35	No	No	0	No	0	No
20:30 to 21:30	545	34	No	No	0	No	0	No
20:45 to 21:45	530	33	No	No	0	No	0	No
21:00 to 22:00	504	36	No	No	0	No	0	No
21:15 to 22:15	470	40	No	No	0	No	0	No
21:30 to 22:30	469	41	No	No	0	No	0	No
21:45 to 22:45	434	46	No	No	0	No	0	No
22:00 to 23:00	413	47	No	No	0	No	0	No
22:15 to 23:15	367	55	No	No	0	No	0	No
22:30 to 23:30	295	51	No	No	0	No	0	No
22:45 to 23:45	266	44	No	No	0	No	0	No
23:00 to 00:00	220	37	No	No	0	No	0	No
23:15 to 00:15	178	19	No	No	0	No	0	No
23:30 to 00:30	143	13	No	No	0	No	0	No
23:45 to 00:45	102	8	No	No	0	No	0	No

Warrant 8: Roadway Network

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction EB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	EB
L	0.00		0.00
T	0.00	0.00	
R		0.00	0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,344	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,344	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

2: Spreckels Ave & Norman Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Norman Dr
Direction	NB/SB	EB
Number of Lanes	2	2
Approach Speed	40	25

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

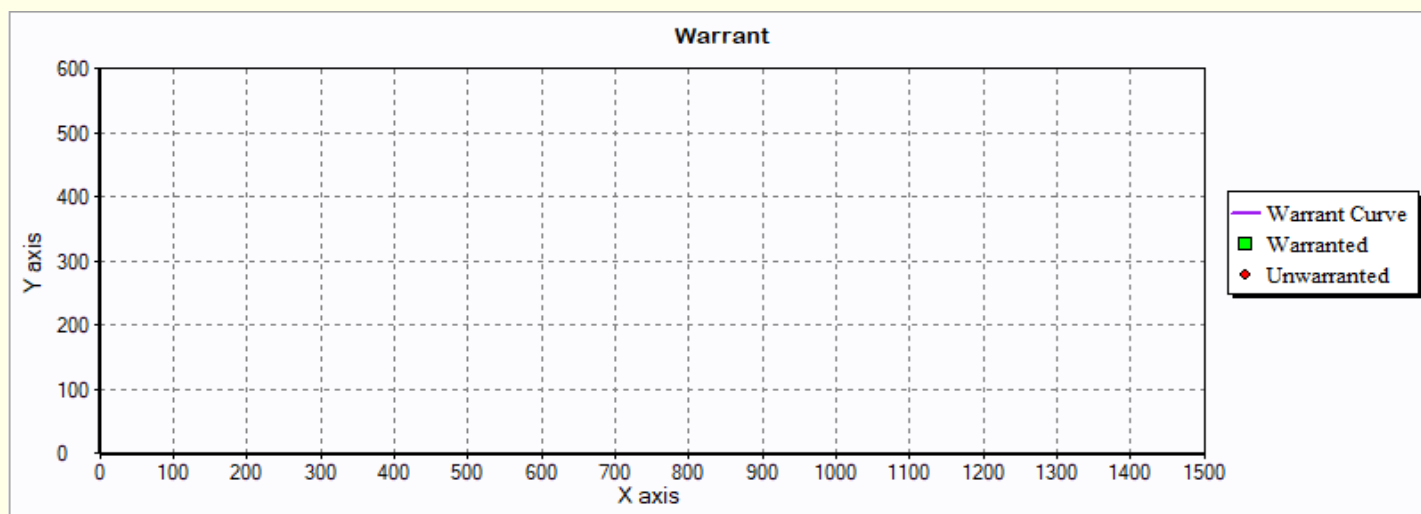
Distance from the center of the track to the stop or yield line Interpolated

Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	98	0	No	No
00:15 to 01:15	88	0	No	No
00:30 to 01:30	95	0	No	No
00:45 to 01:45	83	0	No	No
01:00 to 02:00	69	0	No	No
01:15 to 02:15	62	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	102	0	No	No
02:00 to 03:00	101	0	No	No
02:15 to 03:15	95	0	No	No
02:30 to 03:30	74	0	No	No
02:45 to 03:45	30	0	No	No
03:00 to 04:00	26	0	No	No
03:15 to 04:15	39	0	No	No
03:30 to 04:30	64	0	No	No
03:45 to 04:45	91	0	No	No
04:00 to 05:00	149	0	No	No
04:15 to 05:15	161	0	No	No
04:30 to 05:30	148	0	No	No
04:45 to 05:45	143	0	No	No
05:00 to 06:00	113	0	No	No

05:15 to 06:15	121	0	No	No
05:30 to 06:30	149	0	No	No
05:45 to 06:45	207	0	No	No
06:00 to 07:00	290	0	No	No
06:15 to 07:15	320	0	No	No
06:30 to 07:30	350	0	No	No
06:45 to 07:45	351	0	No	No
07:00 to 08:00	326	0	No	No
07:15 to 08:15	365	0	No	No
07:30 to 08:30	419	0	No	No
07:45 to 08:45	510	0	No	No
08:00 to 09:00	673	0	No	No
08:15 to 09:15	814	0	No	No
08:30 to 09:30	891	0	No	No
08:45 to 09:45	911	0	No	No
09:00 to 10:00	857	0	No	No
09:15 to 10:15	825	0	No	No
09:30 to 10:30	853	0	No	No
09:45 to 10:45	871	0	No	No
10:00 to 11:00	930	0	No	No
10:15 to 11:15	908	0	No	No
10:30 to 11:30	927	0	No	No
10:45 to 11:45	932	0	No	No
11:00 to 12:00	959	0	No	No
11:15 to 12:15	1,025	0	No	No
11:30 to 12:30	1,052	0	No	No
11:45 to 12:45	1,080	0	No	No
12:00 to 13:00	1,055	0	No	No
12:15 to 13:15	1,087	0	No	No
12:30 to 13:30	1,090	0	No	No
12:45 to 13:45	1,095	0	No	No
13:00 to 14:00	1,106	0	No	No
13:15 to 14:15	1,062	0	No	No
13:30 to 14:30	1,041	0	No	No
13:45 to 14:45	1,014	0	No	No
14:00 to 15:00	994	0	No	No
14:15 to 15:15	1,017	0	No	No

14:30 to 15:30	1,084	0	No	No
14:45 to 15:45	1,223	0	No	No
15:00 to 16:00	1,284	0	No	No
15:15 to 16:15	1,344	0	No*	No*
15:30 to 16:30	1,296	0	No	No
15:45 to 16:45	1,210	0	No	No
16:00 to 17:00	1,192	0	No	No
16:15 to 17:15	1,189	0	No	No
16:30 to 17:30	1,229	0	No	No
16:45 to 17:45	1,282	0	No	No
17:00 to 18:00	1,315	0	No	No
17:15 to 18:15	1,319	0	No	No
17:30 to 18:30	1,263	0	No	No
17:45 to 18:45	1,231	0	No	No
18:00 to 19:00	1,187	0	No	No
18:15 to 19:15	1,123	0	No	No
18:30 to 19:30	1,117	0	No	No
18:45 to 19:45	1,033	0	No	No
19:00 to 20:00	959	0	No	No
19:15 to 20:15	876	0	No	No
19:30 to 20:30	788	0	No	No
19:45 to 20:45	719	0	No	No
20:00 to 21:00	641	0	No	No
20:15 to 21:15	612	0	No	No
20:30 to 21:30	579	0	No	No
20:45 to 21:45	563	0	No	No
21:00 to 22:00	540	0	No	No
21:15 to 22:15	510	0	No	No
21:30 to 22:30	510	0	No	No
21:45 to 22:45	480	0	No	No
22:00 to 23:00	460	0	No	No
22:15 to 23:15	422	0	No	No
22:30 to 23:30	346	0	No	No
22:45 to 23:45	310	0	No	No
23:00 to 00:00	257	0	No	No
23:15 to 00:15	197	0	No	No
23:30 to 00:30	156	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

2: Spreckels Ave & Norman Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: EB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 4 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	East Bound Bicycle Volumes	North Bound Ped Volumes	East Bound Ped Volumes	Major Street Veh Vol > 210	Minor Street Avg(Veh + Ped + Bicycle) > 200	Minor Street Delay > 30
11:15 to 12:15	863	162	0	0	0	0	False	No	No
12:15 to 13:15	900	187	0	0	0	0	False	No	No
14:30 to 15:30	924	160	0	0	0	0	False	No	No
17:00 to 18:00	1,155	160	0	0	0	0	False	No	No

Warrants Summary Report

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	Yes	
Condition A or B Met?	Yes	9 Hours met (8 required)
Condition A and B Met?	Yes	9 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	Yes	7 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 12 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****Yes****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****Yes**Condition A Met? **Yes**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

WARRANT 1 MET? Yes

Details:

Condition A Met? No 7 Hours met (8 required) at 100%

Condition B Met? Yes 9 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	95	16	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	89	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	91	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	76	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		62	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		54	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		54	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		98	7	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		101	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		95	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		74	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		33	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		29	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		40	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		67	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		88	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		145	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		158	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		144	14	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		146	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		117	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		131	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		157	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		208	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		288	26	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		314	31	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		341	35	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		342	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		319	28	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		361	27	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		423	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		511	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		645	56	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		764	81	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		815		110		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
08:45 to 09:45		824		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:00 to 10:00		786		133		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:15 to 10:15		750		131		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:30 to 10:30		788		130		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:45 to 10:45		795		154		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		853		156		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		846		152		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		855		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		875		137		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		876		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		934		173		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		965		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:45 to 12:45		990		187		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

12:00 to 13:00		990		196		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

12:15 to 13:15		1,017		196		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

12:30 to 13:30		1,035		214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

12:45 to 13:45		1,054		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		1,070	244	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:15 to 14:15		1,010	248	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:30 to 14:30		989	240	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:45 to 14:45		963	224	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:00 to 15:00		938	204	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:15 to 15:15		984	200	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

14:30 to 15:30		1,037	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:45 to 15:45		1,182	192	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:00 to 16:00		1,246	188	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:15 to 16:15		1,290	207	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:30 to 16:30		1,243	205	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:45 to 16:45		1,138	210	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

16:00 to 17:00		1,144	219	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:15 to 17:15		1,195	198	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:30 to 17:30		1,248	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:45 to 17:45		1,356	199	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:00 to 18:00		1,387	194	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:15 to 18:15		1,369	199	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

17:30 to 18:30		1,310	198	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:45 to 18:45		1,249	214	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:00 to 19:00		1,203	225	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:15 to 19:15		1,172	215	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:30 to 19:30		1,175	215	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
18:45 to 19:45		1,094	201	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

19:00 to 20:00		1,021		194		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		907		200		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		817		186		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:45 to 20:45		745		168		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
20:00 to 21:00		659		147		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
20:15 to 21:15		627		122		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					

20:30 to 21:30		589	119	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
20:45 to 21:45		565	114	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:00 to 22:00		543	99	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:15 to 22:15		500	96	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:30 to 22:30		496	84	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:45 to 22:45		453	67	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		411	61	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		365	52	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		291	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		253	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		211	29	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		167	22	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		135	20		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		101	16		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

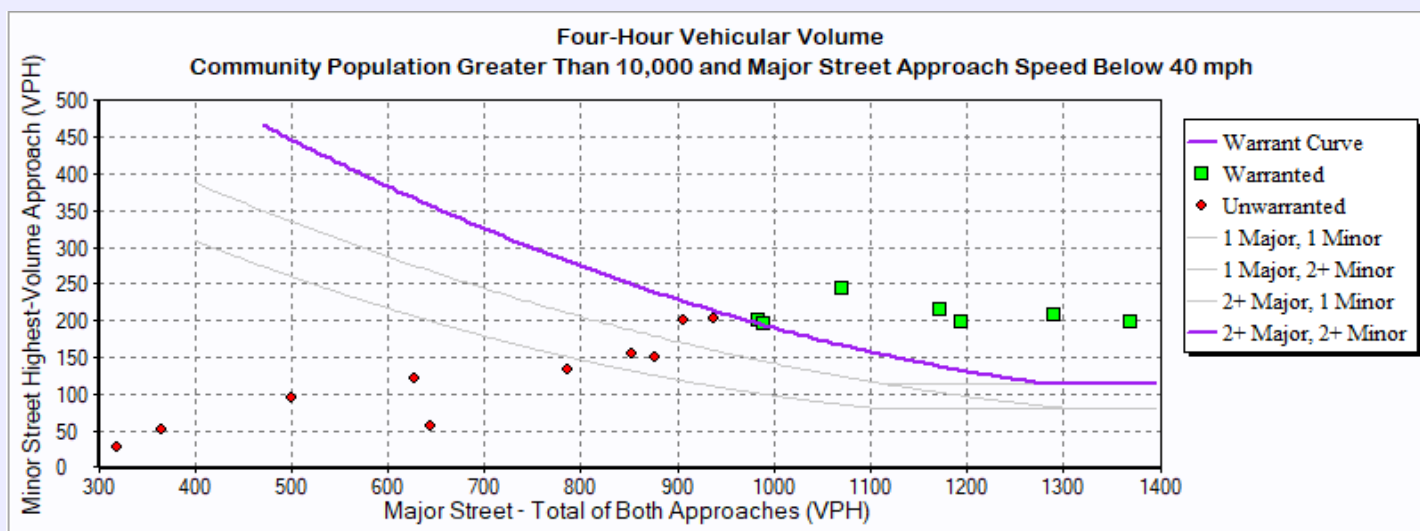
	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **Yes**

Details:

Notes 7 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	95	16
01:00:00 - 02:00:00	62	3
02:00:00 - 03:00:00	101	5
03:00:00 - 04:00:00	29	2
04:00:00 - 05:00:00	145	8
05:00:00 - 06:00:00	117	9
06:00:00 - 07:00:00	288	26
07:00:00 - 08:00:00	319	28
08:00:00 - 09:00:00	645	56
09:00:00 - 10:00:00	786	133
10:00:00 - 11:00:00	853	156
11:00:00 - 12:00:00	876	150
12:00:00 - 13:00:00	990	196
13:00:00 - 14:00:00	1070	244
14:00:00 - 15:00:00	938	204
15:00:00 - 16:00:00	1246	188
16:00:00 - 17:00:00	1144	219
17:00:00 - 18:00:00	1387	194
18:00:00 - 19:00:00	1203	225
19:00:00 - 20:00:00	1021	194
20:00:00 - 21:00:00	659	147
21:00:00 - 22:00:00	543	99
22:00:00 - 23:00:00	411	61
23:00:00 - 00:00:00	211	29

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
12:00:00 - 13:00:00	990.00	196.00
13:00:00 - 14:00:00	1,070.00	244.00
14:15:00 - 15:15:00	984.00	200.00
15:15:00 - 16:15:00	1,290.00	207.00
16:15:00 - 17:15:00	1,195.00	198.00
17:15:00 - 18:15:00	1,369.00	199.00
18:15:00 - 19:15:00	1,172.00	215.00

Warrant 3: Peak Hour

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

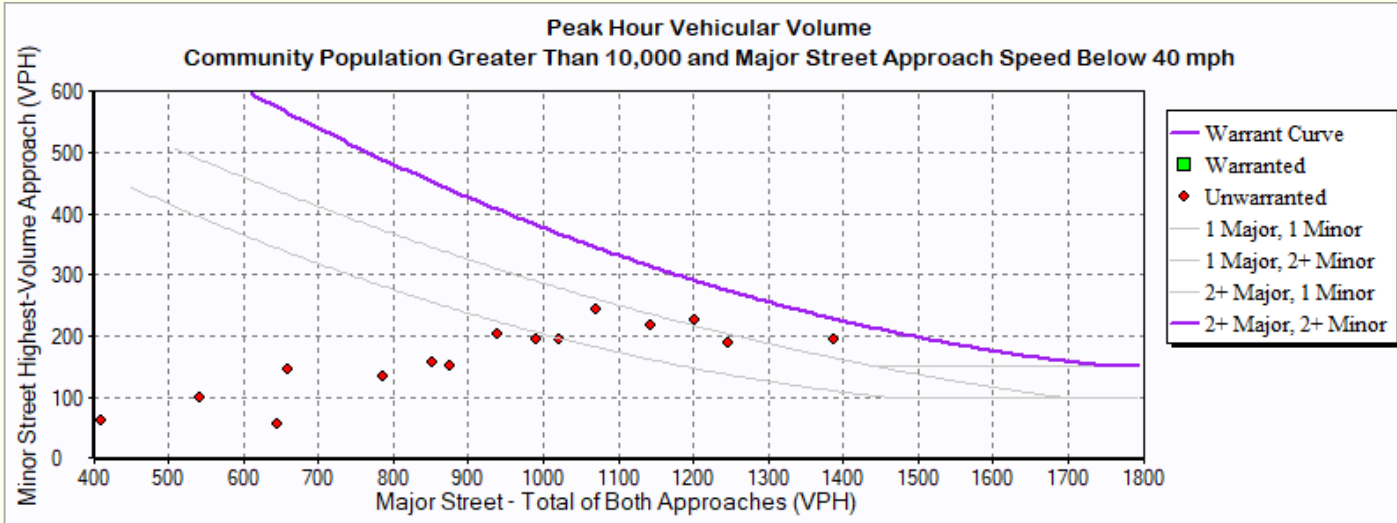
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	95	16
1:00	62	3
2:00	101	5
3:00	29	2
4:00	145	8
5:00	117	9

6:00	288	26
7:00	319	28
8:00	645	56
9:00	786	133
10:00	853	156
11:00	876	150
12:00	990	196
13:00	1,070	244
14:00	938	204
15:00	1,246	188
16:00	1,144	219
17:00	1,387	194
18:00	1,203	225
19:00	1,021	194
20:00	659	147
21:00	543	99
22:00	411	61
23:00	211	29

Warrant 4: Pedestrian Volume

3: Spreckels Ave & Phoenix Dr

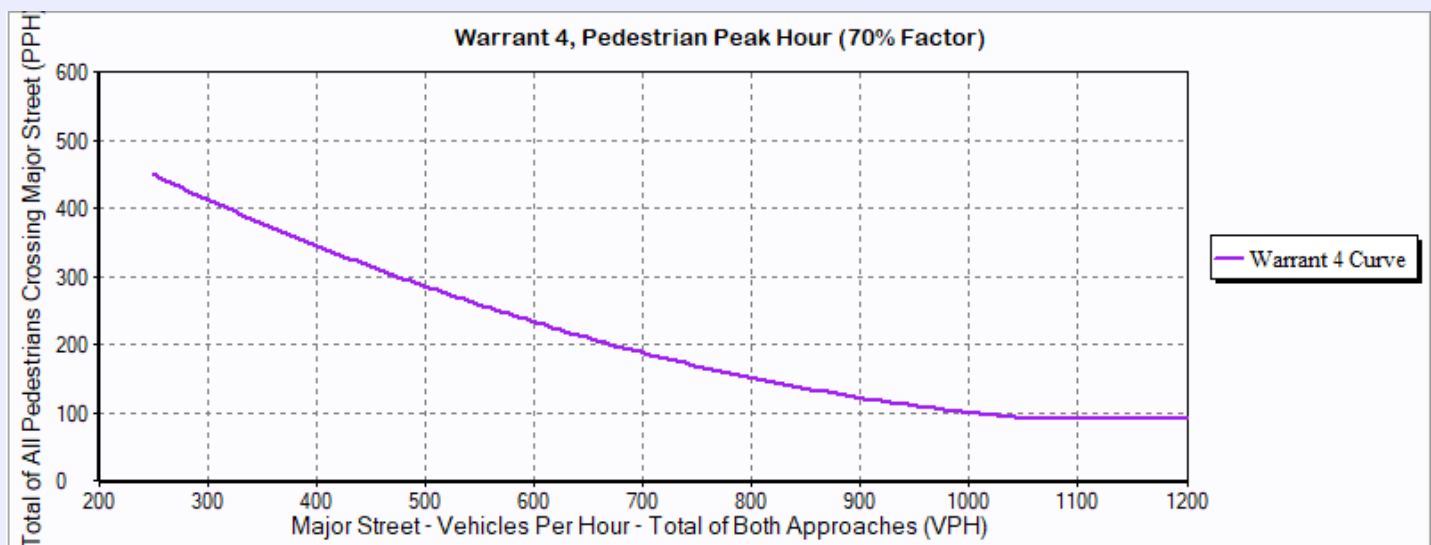
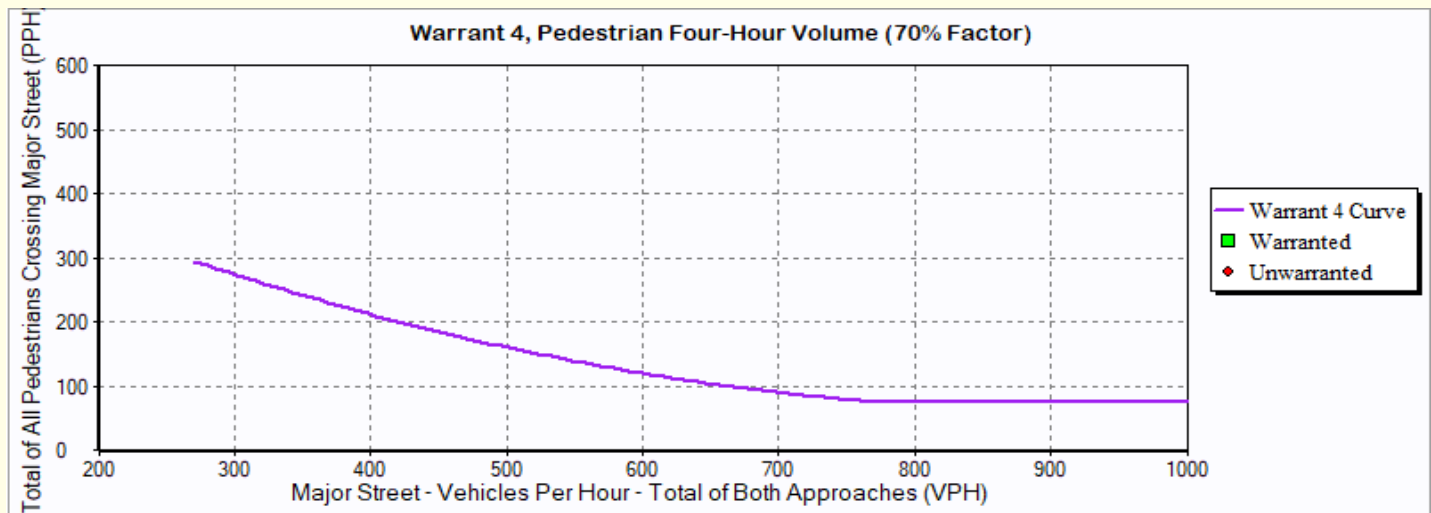
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? No

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? No

Adjacent Signal on NB approach? No

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? No

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? No

Warrant 6: Coordinated Signal System

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Phoenix Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		12 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	95	16	No	No	0	No	0	No
00:15 to 01:15	89	12	No	No	0	No	0	No
00:30 to 01:30	91	9	No	No	0	No	0	No
00:45 to 01:45	76	4	No	No	0	No	0	No
01:00 to 02:00	62	3	No	No	0	No	0	No
01:15 to 02:15	54	5	No	No	0	No	0	No
01:30 to 02:30	54	6	No	No	0	No	0	No
01:45 to 02:45	98	7	No	No	0	No	0	No

02:00 to 03:00	101	5	No	No	0	No	0	No
02:15 to 03:15	95	5	No	No	0	No	0	No
02:30 to 03:30	74	3	No	No	0	No	0	No
02:45 to 03:45	33	2	No	No	0	No	0	No
03:00 to 04:00	29	2	No	No	0	No	0	No
03:15 to 04:15	40	1	No	No	0	No	0	No
03:30 to 04:30	67	1	No	No	0	No	0	No
03:45 to 04:45	88	3	No	No	0	No	0	No
04:00 to 05:00	145	8	No	No	0	No	0	No
04:15 to 05:15	158	11	No	No	0	No	0	No
04:30 to 05:30	144	14	No	No	0	No	0	No
04:45 to 05:45	146	12	No	No	0	No	0	No
05:00 to 06:00	117	9	No	No	0	No	0	No
05:15 to 06:15	131	8	No	No	0	No	0	No
05:30 to 06:30	157	9	No	No	0	No	0	No
05:45 to 06:45	208	19	No	No	0	No	0	No
06:00 to 07:00	288	26	No	No	0	No	0	No
06:15 to 07:15	314	31	No	No	0	No	0	No

06:30 to 07:30	341	35	No	No	0	No	0	No
06:45 to 07:45	342	33	No	No	0	No	0	No
07:00 to 08:00	319	28	No	No	0	No	0	No
07:15 to 08:15	361	27	No	No	0	No	0	No
07:30 to 08:30	423	33	No	No	0	No	0	No
07:45 to 08:45	511	40	No	No	0	No	0	No
08:00 to 09:00	645	56	No	No	0	No	0	No
08:15 to 09:15	764	81	No*	Yes*	0	No	0	No
08:30 to 09:30	815	110	No	Yes	0	No	0	No
08:45 to 09:45	824	122	No	Yes	0	No	0	No
09:00 to 10:00	786	133	No	Yes	0	No	0	No
09:15 to 10:15	750	131	No*	Yes*	0	No	0	No
09:30 to 10:30	788	130	No	Yes	0	No	0	No
09:45 to 10:45	795	154	No	Yes	0	No	0	No
10:00 to 11:00	853	156	No	Yes	0	No	0	No
10:15 to 11:15	846	152	No*	Yes*	0	No	0	No
10:30 to 11:30	855	148	No	Yes	0	No	0	No
10:45 to 11:45	875	137	No	Yes	0	No	0	No

11:00 to 12:00	876	150	No	Yes	0	No	0	No
11:15 to 12:15	934	173	Yes*	Yes*	0	No	0	No
11:30 to 12:30	965	179	Yes	Yes	0	No	0	No
11:45 to 12:45	990	187	Yes	Yes	0	No	0	No
12:00 to 13:00	990	196	Yes	Yes	0	No	0	No
12:15 to 13:15	1,017	196	Yes*	Yes*	0	No	0	No
12:30 to 13:30	1,035	214	Yes	Yes	0	No	0	No
12:45 to 13:45	1,054	234	Yes	Yes	0	No	0	No
13:00 to 14:00	1,070	244	Yes	Yes	0	No	0	No
13:15 to 14:15	1,010	248	Yes*	Yes*	0	No	0	No
13:30 to 14:30	989	240	Yes	Yes	0	No	0	No
13:45 to 14:45	963	224	Yes	Yes	0	No	0	No
14:00 to 15:00	938	204	Yes	Yes	0	No	0	No
14:15 to 15:15	984	200	Yes*	Yes*	0	No	0	No
14:30 to 15:30	1,037	200	Yes	Yes	0	No	0	No
14:45 to 15:45	1,182	192	Yes	Yes	0	No	0	No
15:00 to 16:00	1,246	188	Yes	Yes	0	No	0	No
15:15 to 16:15	1,290	207	Yes*	Yes*	0	No	0	No

15:30 to 16:30	1,243	205	Yes	Yes	0	No	0	No
15:45 to 16:45	1,138	210	Yes	Yes	0	No	0	No
16:00 to 17:00	1,144	219	Yes	Yes	0	No	0	No
16:15 to 17:15	1,195	198	Yes*	Yes*	0	No	0	No
16:30 to 17:30	1,248	200	Yes	Yes	0	No	0	No
16:45 to 17:45	1,356	199	Yes	Yes	0	No	0	No
17:00 to 18:00	1,387	194	Yes	Yes	0	No	0	No
17:15 to 18:15	1,369	199	Yes*	Yes*	0	No	0	No
17:30 to 18:30	1,310	198	Yes	Yes	0	No	0	No
17:45 to 18:45	1,249	214	Yes	Yes	0	No	0	No
18:00 to 19:00	1,203	225	Yes	Yes	0	No	0	No
18:15 to 19:15	1,172	215	Yes*	Yes*	0	No	0	No
18:30 to 19:30	1,175	215	Yes	Yes	0	No	0	No
18:45 to 19:45	1,094	201	Yes	Yes	0	No	0	No
19:00 to 20:00	1,021	194	Yes	Yes	0	No	0	No
19:15 to 20:15	907	200	Yes*	Yes*	0	No	0	No
19:30 to 20:30	817	186	Yes	Yes	0	No	0	No
19:45 to 20:45	745	168	Yes	Yes	0	No	0	No

20:00 to 21:00	659	147	No	No	0	No	0	No
20:15 to 21:15	627	122	No	No	0	No	0	No
20:30 to 21:30	589	119	No	No	0	No	0	No
20:45 to 21:45	565	114	No	No	0	No	0	No
21:00 to 22:00	543	99	No	No	0	No	0	No
21:15 to 22:15	500	96	No	No	0	No	0	No
21:30 to 22:30	496	84	No	No	0	No	0	No
21:45 to 22:45	453	67	No	No	0	No	0	No
22:00 to 23:00	411	61	No	No	0	No	0	No
22:15 to 23:15	365	52	No	No	0	No	0	No
22:30 to 23:30	291	34	No	No	0	No	0	No
22:45 to 23:45	253	33	No	No	0	No	0	No
23:00 to 00:00	211	29	No	No	0	No	0	No
23:15 to 00:15	167	22	No	No	0	No	0	No
23:30 to 00:30	135	20	No	No	0	No	0	No
23:45 to 00:45	101	16	No	No	0	No	0	No

Warrant 8: Roadway Network

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 8 MET? (A or B) **Yes**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,581	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,581	Third Highest Hour	0	0
Warrant 1 in 5 Years?	Yes	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	Yes	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **Yes**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

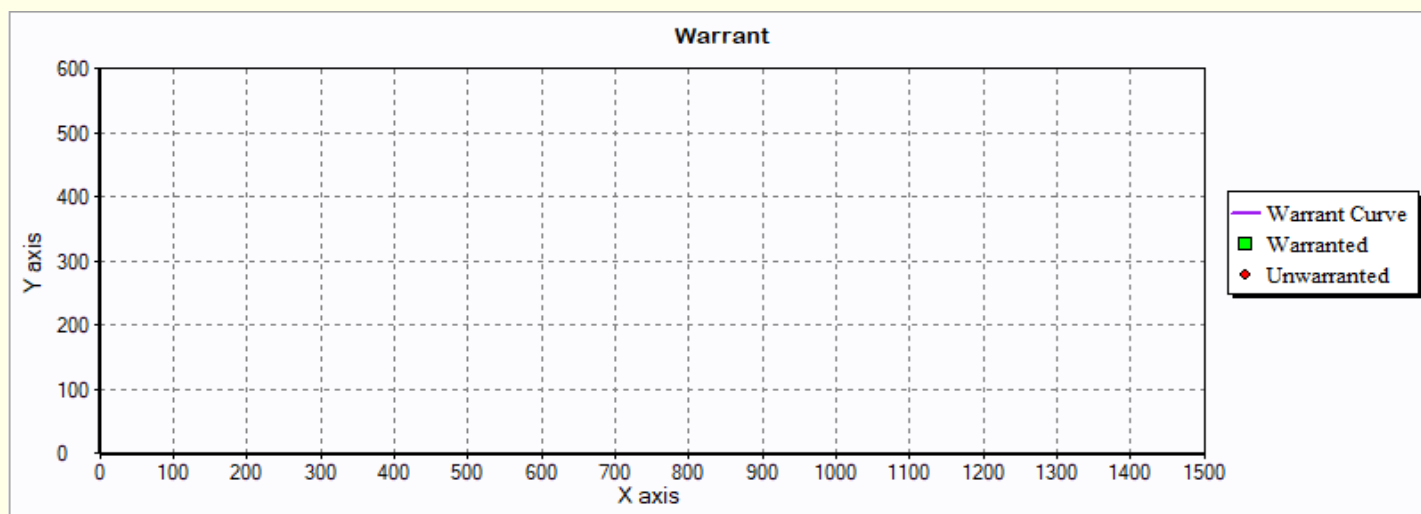
Distance from the center of the track to the stop or yield line Interpolated

Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	111	0	No	No
00:15 to 01:15	101	0	No	No
00:30 to 01:30	100	0	No	No
00:45 to 01:45	80	0	No	No
01:00 to 02:00	65	0	No	No
01:15 to 02:15	59	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	105	0	No	No
02:00 to 03:00	106	0	No	No
02:15 to 03:15	100	0	No	No
02:30 to 03:30	77	0	No	No
02:45 to 03:45	35	0	No	No
03:00 to 04:00	31	0	No	No
03:15 to 04:15	41	0	No	No
03:30 to 04:30	68	0	No	No
03:45 to 04:45	91	0	No	No
04:00 to 05:00	153	0	No	No
04:15 to 05:15	169	0	No	No
04:30 to 05:30	158	0	No	No
04:45 to 05:45	158	0	No	No
05:00 to 06:00	126	0	No	No

05:15 to 06:15	139	0	No	No
05:30 to 06:30	166	0	No	No
05:45 to 06:45	227	0	No	No
06:00 to 07:00	314	0	No	No
06:15 to 07:15	345	0	No	No
06:30 to 07:30	376	0	No	No
06:45 to 07:45	375	0	No	No
07:00 to 08:00	347	0	No	No
07:15 to 08:15	388	0	No	No
07:30 to 08:30	456	0	No	No
07:45 to 08:45	551	0	No	No
08:00 to 09:00	701	0	No	No
08:15 to 09:15	845	0	No	No
08:30 to 09:30	925	0	No	No
08:45 to 09:45	946	0	No	No
09:00 to 10:00	919	0	No	No
09:15 to 10:15	881	0	No	No
09:30 to 10:30	918	0	No	No
09:45 to 10:45	949	0	No	No
10:00 to 11:00	1,009	0	No	No
10:15 to 11:15	998	0	No	No
10:30 to 11:30	1,003	0	No	No
10:45 to 11:45	1,012	0	No	No
11:00 to 12:00	1,026	0	No	No
11:15 to 12:15	1,107	0	No	No
11:30 to 12:30	1,144	0	No	No
11:45 to 12:45	1,177	0	No	No
12:00 to 13:00	1,186	0	No	No
12:15 to 13:15	1,213	0	No	No
12:30 to 13:30	1,249	0	No	No
12:45 to 13:45	1,288	0	No	No
13:00 to 14:00	1,314	0	No	No
13:15 to 14:15	1,258	0	No	No
13:30 to 14:30	1,229	0	No	No
13:45 to 14:45	1,187	0	No	No
14:00 to 15:00	1,142	0	No	No
14:15 to 15:15	1,184	0	No	No

14:30 to 15:30	1,237	0	No	No
14:45 to 15:45	1,374	0	No	No
15:00 to 16:00	1,434	0	No	No
15:15 to 16:15	1,497	0	No	No
15:30 to 16:30	1,448	0	No	No
15:45 to 16:45	1,348	0	No	No
16:00 to 17:00	1,363	0	No	No
16:15 to 17:15	1,393	0	No	No
16:30 to 17:30	1,448	0	No	No
16:45 to 17:45	1,555	0	No	No
17:00 to 18:00	1,581	0	No*	No*
17:15 to 18:15	1,568	0	No	No
17:30 to 18:30	1,508	0	No	No
17:45 to 18:45	1,463	0	No	No
18:00 to 19:00	1,428	0	No	No
18:15 to 19:15	1,387	0	No	No
18:30 to 19:30	1,390	0	No	No
18:45 to 19:45	1,295	0	No	No
19:00 to 20:00	1,215	0	No	No
19:15 to 20:15	1,107	0	No	No
19:30 to 20:30	1,003	0	No	No
19:45 to 20:45	913	0	No	No
20:00 to 21:00	806	0	No	No
20:15 to 21:15	749	0	No	No
20:30 to 21:30	708	0	No	No
20:45 to 21:45	679	0	No	No
21:00 to 22:00	642	0	No	No
21:15 to 22:15	596	0	No	No
21:30 to 22:30	580	0	No	No
21:45 to 22:45	520	0	No	No
22:00 to 23:00	472	0	No	No
22:15 to 23:15	417	0	No	No
22:30 to 23:30	325	0	No	No
22:45 to 23:45	286	0	No	No
23:00 to 00:00	240	0	No	No
23:15 to 00:15	189	0	No	No
23:30 to 00:30	155	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **Yes**

Details:

Condition A Met?	Yes	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 7 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street Veh Volume > 300	Minor Street Avg(Veh + Ped + Bicycle) > 200	Delay > 30
12:30 to 13:30	1,035	214	0	0	0	0	False	No	No
13:30 to 14:30	989	240	0	0	0	0	False	No	No
14:30 to 15:30	1,037	200	0	0	0	0	False	No	No
15:30 to 16:30	1,243	205	0	0	0	0	False	No	No
16:30 to 17:30	1,248	200	0	0	0	0	False	No	No
17:45 to 18:45	1,249	214	0	0	0	0	False	No	No
18:45 to 19:45	1,094	201	0	0	0	0	False	No	No

Warrants Summary Report

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	Yes	
Condition A or B Met?	Yes	9 Hours met (8 required)
Condition A and B Met?	Yes	9 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	Yes	7 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 12 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****Yes****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****Yes**Condition A Met? **Yes**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

WARRANT 1 MET? Yes

Details:

Condition A Met? No 7 Hours met (8 required) at 100%

Condition B Met? Yes 9 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	95	16	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	89	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	91	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	76	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		62	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		54	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		54	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		99	7	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		102	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		96	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		75	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		33	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		29	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		40	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		67	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		89	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		147	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		160	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		146	14	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		147	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		118	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		133	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		160	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		213	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		295	26	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		322	31	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		350	35	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		351	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		327	28	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		369	27	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		431	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		521	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		657	56	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		779	81	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		831		110		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
08:45 to 09:45		840		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:00 to 10:00		801		133		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:15 to 10:15		764		131		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:30 to 10:30		803		130		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:45 to 10:45		810		154		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		869		156		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		861		152		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		870		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		890		137		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		891		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		950		173		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		981		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		1,006		187		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		1,006		196		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		1,033		196		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		1,051		214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		1,070		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		1,086	244	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:15 to 14:15		1,026	248	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:30 to 14:30		1,005	240	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:45 to 14:45		979	224	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:00 to 15:00		954	204	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:15 to 15:15		1,001	200	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

14:30 to 15:30		1,056	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:45 to 15:45		1,203	192	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:00 to 16:00		1,269	188	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:15 to 16:15		1,313	207	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:30 to 16:30		1,265	205	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:45 to 16:45		1,159	210	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

16:00 to 17:00		1,165	219	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:15 to 17:15		1,217	198	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:30 to 17:30		1,271	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:45 to 17:45		1,381	199	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:00 to 18:00		1,413	194	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:15 to 18:15		1,395	199	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

17:30 to 18:30		1,335	198		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
17:45 to 18:45		1,273	214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:00 to 19:00		1,225	225		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:15 to 19:15		1,193	215		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:30 to 19:30		1,195	215		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:45 to 19:45		1,112	201		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				

19:00 to 20:00		1,039		194		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		924		200		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		833		186		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:45 to 20:45		761		168		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
20:00 to 21:00		672		147		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
20:15 to 21:15		639		122		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					

20:30 to 21:30	600	119	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

20:45 to 21:45	574	114	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:00 to 22:00	552	99	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:15 to 22:15	508	96	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:30 to 22:30	504	84	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:45 to 22:45	461	67	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

22:00 to 23:00		419	61	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		373	52	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		298	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		260	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		216	29	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		170	22	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		137	20		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		101	16		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

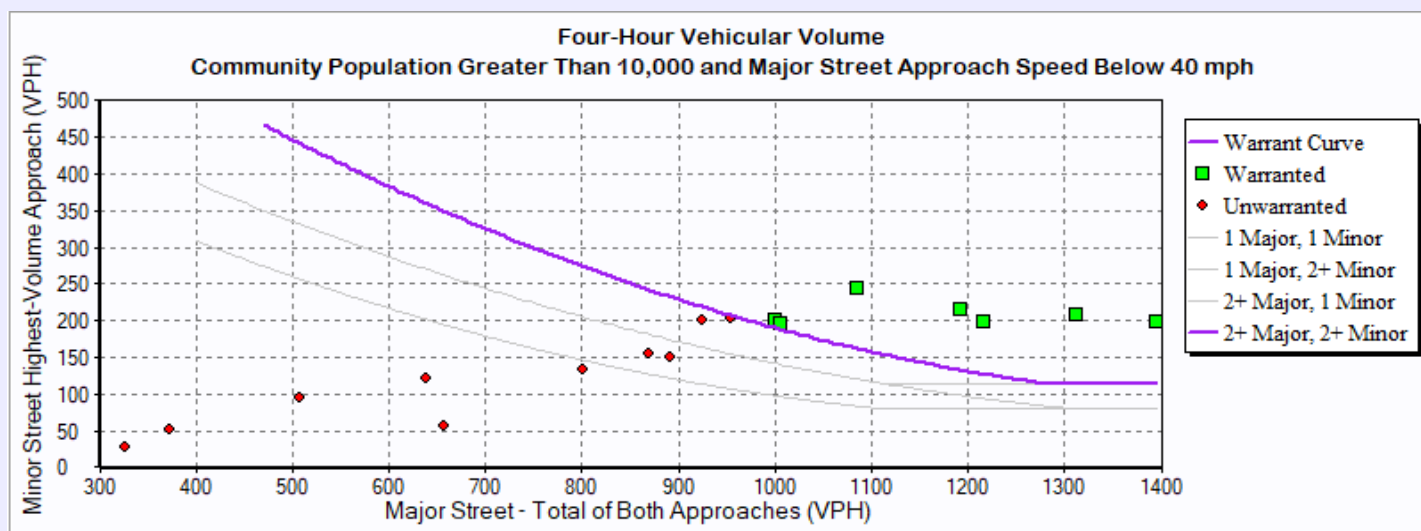
	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **Yes**

Details:

Notes 7 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	95	16
01:00:00 - 02:00:00	62	3
02:00:00 - 03:00:00	102	5
03:00:00 - 04:00:00	29	2
04:00:00 - 05:00:00	147	8
05:00:00 - 06:00:00	118	9
06:00:00 - 07:00:00	295	26
07:00:00 - 08:00:00	327	28
08:00:00 - 09:00:00	657	56
09:00:00 - 10:00:00	801	133
10:00:00 - 11:00:00	869	156
11:00:00 - 12:00:00	891	150
12:00:00 - 13:00:00	1006	196
13:00:00 - 14:00:00	1086	244
14:00:00 - 15:00:00	954	204
15:00:00 - 16:00:00	1269	188
16:00:00 - 17:00:00	1165	219
17:00:00 - 18:00:00	1413	194
18:00:00 - 19:00:00	1225	225
19:00:00 - 20:00:00	1039	194
20:00:00 - 21:00:00	672	147
21:00:00 - 22:00:00	552	99
22:00:00 - 23:00:00	419	61
23:00:00 - 00:00:00	216	29

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
12:00:00 - 13:00:00	1,006.00	196.00
13:00:00 - 14:00:00	1,086.00	244.00
14:15:00 - 15:15:00	1,001.00	200.00
15:15:00 - 16:15:00	1,313.00	207.00
16:15:00 - 17:15:00	1,217.00	198.00
17:15:00 - 18:15:00	1,395.00	199.00
18:15:00 - 19:15:00	1,193.00	215.00

Warrant 3: Peak Hour

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

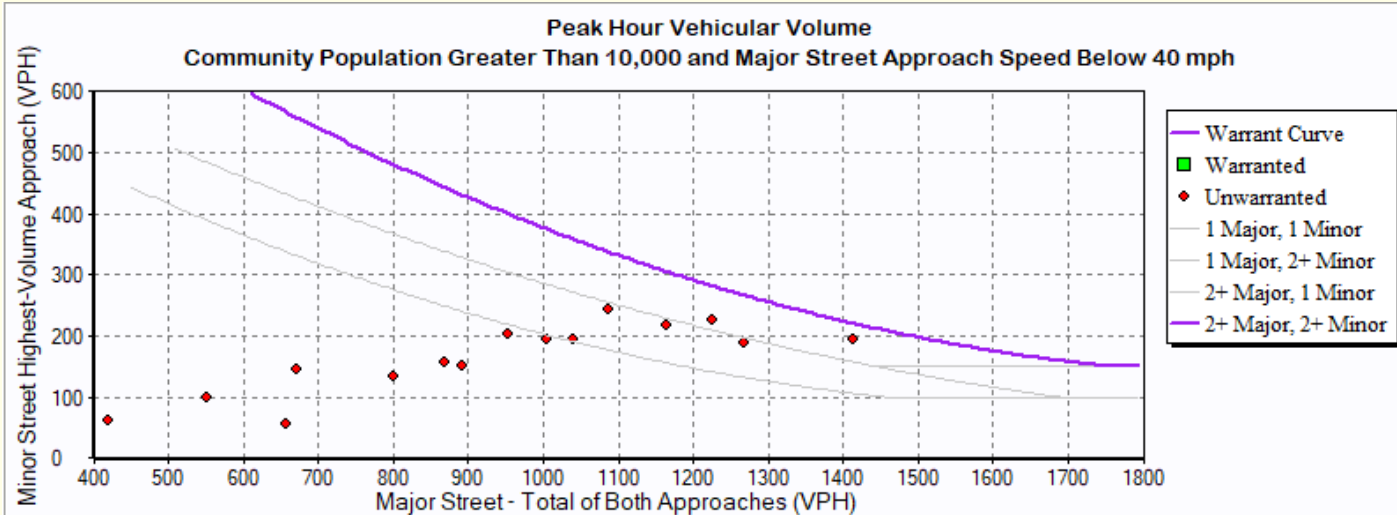
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	95	16
1:00	62	3
2:00	102	5
3:00	29	2
4:00	147	8
5:00	118	9

6:00	295	26
7:00	327	28
8:00	657	56
9:00	801	133
10:00	869	156
11:00	891	150
12:00	1,006	196
13:00	1,086	244
14:00	954	204
15:00	1,269	188
16:00	1,165	219
17:00	1,413	194
18:00	1,225	225
19:00	1,039	194
20:00	672	147
21:00	552	99
22:00	419	61
23:00	216	29

Warrant 4: Pedestrian Volume

3: Spreckels Ave & Phoenix Dr

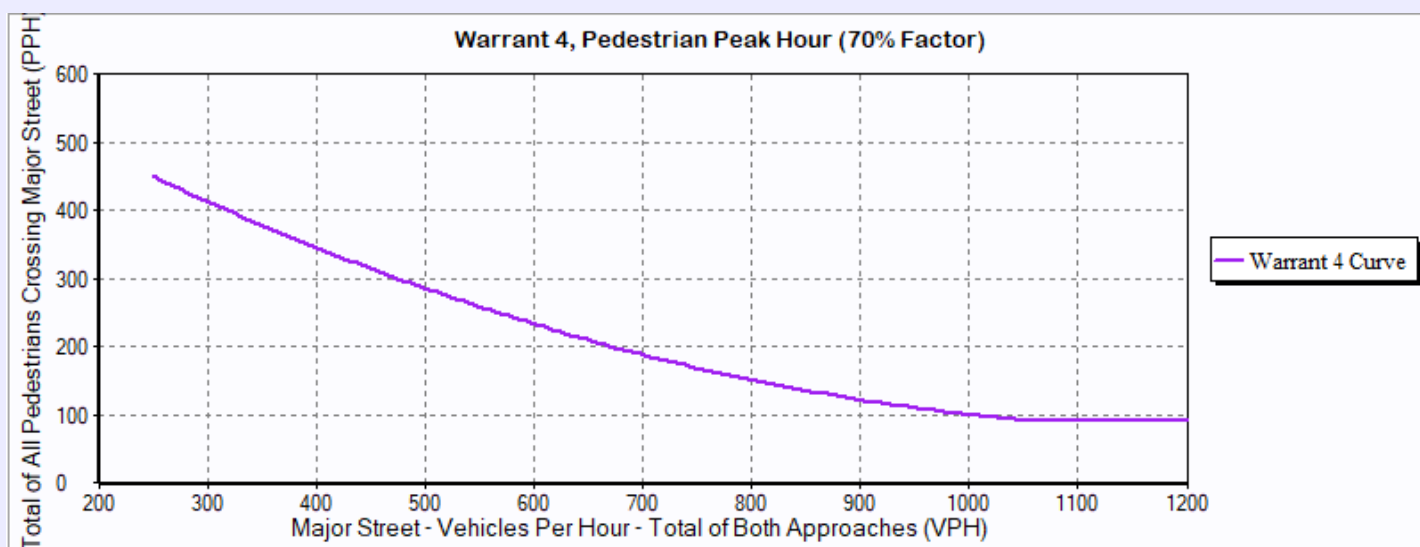
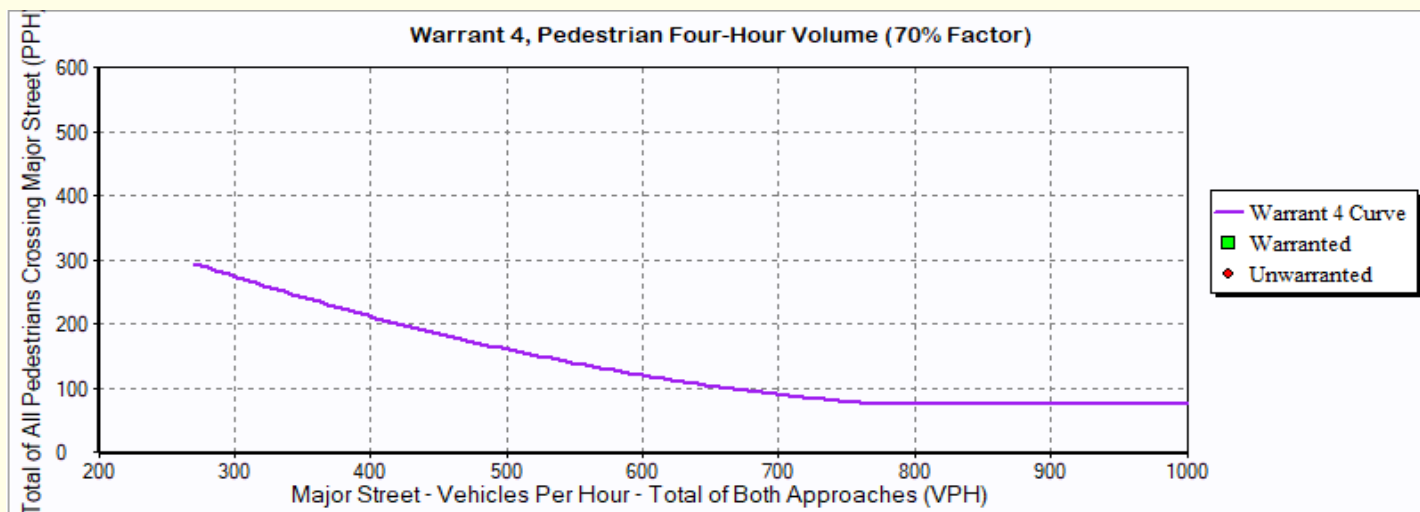
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? No

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? No

Adjacent Signal on NB approach? No

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? No

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? No

Warrant 6: Coordinated Signal System

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Phoenix Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		12 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	95	16	No	No	0	No	0	No
00:15 to 01:15	89	12	No	No	0	No	0	No
00:30 to 01:30	91	9	No	No	0	No	0	No
00:45 to 01:45	76	4	No	No	0	No	0	No
01:00 to 02:00	62	3	No	No	0	No	0	No
01:15 to 02:15	54	5	No	No	0	No	0	No
01:30 to 02:30	54	6	No	No	0	No	0	No
01:45 to 02:45	99	7	No	No	0	No	0	No

02:00 to 03:00	102	5	No	No	0	No	0	No
02:15 to 03:15	96	5	No	No	0	No	0	No
02:30 to 03:30	75	3	No	No	0	No	0	No
02:45 to 03:45	33	2	No	No	0	No	0	No
03:00 to 04:00	29	2	No	No	0	No	0	No
03:15 to 04:15	40	1	No	No	0	No	0	No
03:30 to 04:30	67	1	No	No	0	No	0	No
03:45 to 04:45	89	3	No	No	0	No	0	No
04:00 to 05:00	147	8	No	No	0	No	0	No
04:15 to 05:15	160	11	No	No	0	No	0	No
04:30 to 05:30	146	14	No	No	0	No	0	No
04:45 to 05:45	147	12	No	No	0	No	0	No
05:00 to 06:00	118	9	No	No	0	No	0	No
05:15 to 06:15	133	8	No	No	0	No	0	No
05:30 to 06:30	160	9	No	No	0	No	0	No
05:45 to 06:45	213	19	No	No	0	No	0	No
06:00 to 07:00	295	26	No	No	0	No	0	No
06:15 to 07:15	322	31	No	No	0	No	0	No

06:30 to 07:30	350	35	No	No	0	No	0	No
06:45 to 07:45	351	33	No	No	0	No	0	No
07:00 to 08:00	327	28	No	No	0	No	0	No
07:15 to 08:15	369	27	No	No	0	No	0	No
07:30 to 08:30	431	33	No	No	0	No	0	No
07:45 to 08:45	521	40	No	No	0	No	0	No
08:00 to 09:00	657	56	No	No	0	No	0	No
08:15 to 09:15	779	81	No*	Yes*	0	No	0	No
08:30 to 09:30	831	110	No	Yes	0	No	0	No
08:45 to 09:45	840	122	No	Yes	0	No	0	No
09:00 to 10:00	801	133	No	Yes	0	No	0	No
09:15 to 10:15	764	131	No*	Yes*	0	No	0	No
09:30 to 10:30	803	130	No	Yes	0	No	0	No
09:45 to 10:45	810	154	No	Yes	0	No	0	No
10:00 to 11:00	869	156	No	Yes	0	No	0	No
10:15 to 11:15	861	152	No*	Yes*	0	No	0	No
10:30 to 11:30	870	148	No	Yes	0	No	0	No
10:45 to 11:45	890	137	No	Yes	0	No	0	No

11:00 to 12:00	891	150	No	Yes	0	No	0	No
11:15 to 12:15	950	173	Yes*	Yes*	0	No	0	No
11:30 to 12:30	981	179	Yes	Yes	0	No	0	No
11:45 to 12:45	1,006	187	Yes	Yes	0	No	0	No
12:00 to 13:00	1,006	196	Yes	Yes	0	No	0	No
12:15 to 13:15	1,033	196	Yes*	Yes*	0	No	0	No
12:30 to 13:30	1,051	214	Yes	Yes	0	No	0	No
12:45 to 13:45	1,070	234	Yes	Yes	0	No	0	No
13:00 to 14:00	1,086	244	Yes	Yes	0	No	0	No
13:15 to 14:15	1,026	248	Yes*	Yes*	0	No	0	No
13:30 to 14:30	1,005	240	Yes	Yes	0	No	0	No
13:45 to 14:45	979	224	Yes	Yes	0	No	0	No
14:00 to 15:00	954	204	Yes	Yes	0	No	0	No
14:15 to 15:15	1,001	200	Yes*	Yes*	0	No	0	No
14:30 to 15:30	1,056	200	Yes	Yes	0	No	0	No
14:45 to 15:45	1,203	192	Yes	Yes	0	No	0	No
15:00 to 16:00	1,269	188	Yes	Yes	0	No	0	No
15:15 to 16:15	1,313	207	Yes*	Yes*	0	No	0	No

15:30 to 16:30	1,265	205	Yes	Yes	0	No	0	No
15:45 to 16:45	1,159	210	Yes	Yes	0	No	0	No
16:00 to 17:00	1,165	219	Yes	Yes	0	No	0	No
16:15 to 17:15	1,217	198	Yes*	Yes*	0	No	0	No
16:30 to 17:30	1,271	200	Yes	Yes	0	No	0	No
16:45 to 17:45	1,381	199	Yes	Yes	0	No	0	No
17:00 to 18:00	1,413	194	Yes	Yes	0	No	0	No
17:15 to 18:15	1,395	199	Yes*	Yes*	0	No	0	No
17:30 to 18:30	1,335	198	Yes	Yes	0	No	0	No
17:45 to 18:45	1,273	214	Yes	Yes	0	No	0	No
18:00 to 19:00	1,225	225	Yes	Yes	0	No	0	No
18:15 to 19:15	1,193	215	Yes*	Yes*	0	No	0	No
18:30 to 19:30	1,195	215	Yes	Yes	0	No	0	No
18:45 to 19:45	1,112	201	Yes	Yes	0	No	0	No
19:00 to 20:00	1,039	194	Yes	Yes	0	No	0	No
19:15 to 20:15	924	200	Yes*	Yes*	0	No	0	No
19:30 to 20:30	833	186	Yes	Yes	0	No	0	No
19:45 to 20:45	761	168	Yes	Yes	0	No	0	No

20:00 to 21:00	672	147	No	No	0	No	0	No
20:15 to 21:15	639	122	No	No	0	No	0	No
20:30 to 21:30	600	119	No	No	0	No	0	No
20:45 to 21:45	574	114	No	No	0	No	0	No
21:00 to 22:00	552	99	No	No	0	No	0	No
21:15 to 22:15	508	96	No	No	0	No	0	No
21:30 to 22:30	504	84	No	No	0	No	0	No
21:45 to 22:45	461	67	No	No	0	No	0	No
22:00 to 23:00	419	61	No	No	0	No	0	No
22:15 to 23:15	373	52	No	No	0	No	0	No
22:30 to 23:30	298	34	No	No	0	No	0	No
22:45 to 23:45	260	33	No	No	0	No	0	No
23:00 to 00:00	216	29	No	No	0	No	0	No
23:15 to 00:15	170	22	No	No	0	No	0	No
23:30 to 00:30	137	20	No	No	0	No	0	No
23:45 to 00:45	101	16	No	No	0	No	0	No

Warrant 8: Roadway Network

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 8 MET? (A or B) **Yes**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,607	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,607	Third Highest Hour	0	0
Warrant 1 in 5 Years?	Yes	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	Yes	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **Yes**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

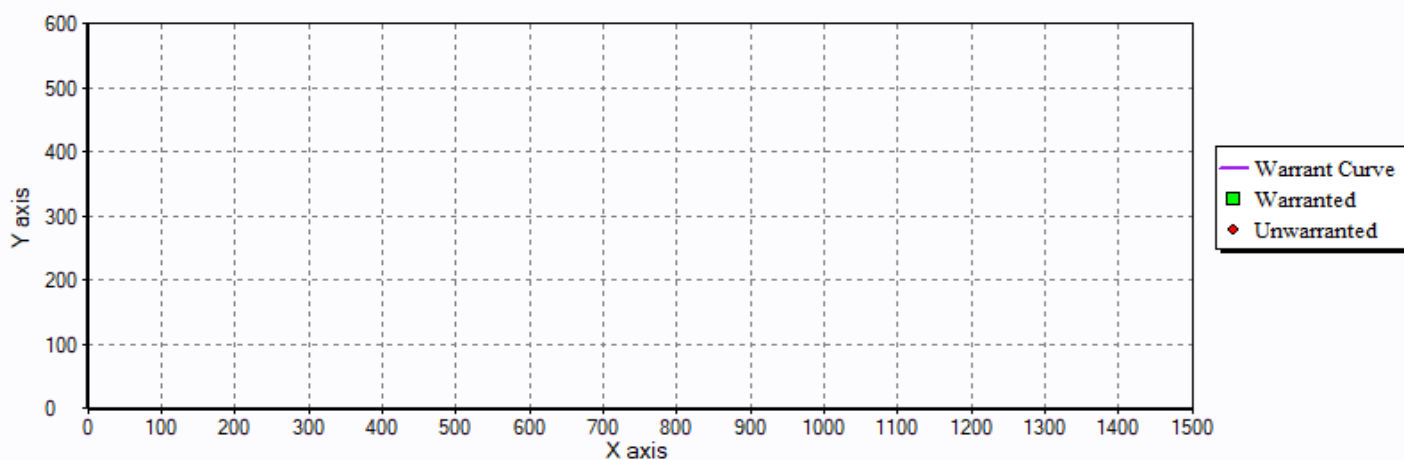
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	111	0	No	No
00:15 to 01:15	101	0	No	No
00:30 to 01:30	100	0	No	No
00:45 to 01:45	80	0	No	No
01:00 to 02:00	65	0	No	No
01:15 to 02:15	59	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	106	0	No	No
02:00 to 03:00	107	0	No	No
02:15 to 03:15	101	0	No	No
02:30 to 03:30	78	0	No	No
02:45 to 03:45	35	0	No	No
03:00 to 04:00	31	0	No	No
03:15 to 04:15	41	0	No	No
03:30 to 04:30	68	0	No	No
03:45 to 04:45	92	0	No	No
04:00 to 05:00	155	0	No	No
04:15 to 05:15	171	0	No	No
04:30 to 05:30	160	0	No	No
04:45 to 05:45	159	0	No	No
05:00 to 06:00	127	0	No	No

05:15 to 06:15	141	0	No	No
05:30 to 06:30	169	0	No	No
05:45 to 06:45	232	0	No	No
06:00 to 07:00	321	0	No	No
06:15 to 07:15	353	0	No	No
06:30 to 07:30	385	0	No	No
06:45 to 07:45	384	0	No	No
07:00 to 08:00	355	0	No	No
07:15 to 08:15	396	0	No	No
07:30 to 08:30	464	0	No	No
07:45 to 08:45	561	0	No	No
08:00 to 09:00	713	0	No	No
08:15 to 09:15	860	0	No	No
08:30 to 09:30	941	0	No	No
08:45 to 09:45	962	0	No	No
09:00 to 10:00	934	0	No	No
09:15 to 10:15	895	0	No	No
09:30 to 10:30	933	0	No	No
09:45 to 10:45	964	0	No	No
10:00 to 11:00	1,025	0	No	No
10:15 to 11:15	1,013	0	No	No
10:30 to 11:30	1,018	0	No	No
10:45 to 11:45	1,027	0	No	No
11:00 to 12:00	1,041	0	No	No
11:15 to 12:15	1,123	0	No	No
11:30 to 12:30	1,160	0	No	No
11:45 to 12:45	1,193	0	No	No
12:00 to 13:00	1,202	0	No	No
12:15 to 13:15	1,229	0	No	No
12:30 to 13:30	1,265	0	No	No
12:45 to 13:45	1,304	0	No	No
13:00 to 14:00	1,330	0	No	No
13:15 to 14:15	1,274	0	No	No
13:30 to 14:30	1,245	0	No	No
13:45 to 14:45	1,203	0	No	No
14:00 to 15:00	1,158	0	No	No
14:15 to 15:15	1,201	0	No	No

14:30 to 15:30	1,256	0	No	No
14:45 to 15:45	1,395	0	No	No
15:00 to 16:00	1,457	0	No	No
15:15 to 16:15	1,520	0	No	No
15:30 to 16:30	1,470	0	No	No
15:45 to 16:45	1,369	0	No	No
16:00 to 17:00	1,384	0	No	No
16:15 to 17:15	1,415	0	No	No
16:30 to 17:30	1,471	0	No	No
16:45 to 17:45	1,580	0	No	No
17:00 to 18:00	1,607	0	No*	No*
17:15 to 18:15	1,594	0	No	No
17:30 to 18:30	1,533	0	No	No
17:45 to 18:45	1,487	0	No	No
18:00 to 19:00	1,450	0	No	No
18:15 to 19:15	1,408	0	No	No
18:30 to 19:30	1,410	0	No	No
18:45 to 19:45	1,313	0	No	No
19:00 to 20:00	1,233	0	No	No
19:15 to 20:15	1,124	0	No	No
19:30 to 20:30	1,019	0	No	No
19:45 to 20:45	929	0	No	No
20:00 to 21:00	819	0	No	No
20:15 to 21:15	761	0	No	No
20:30 to 21:30	719	0	No	No
20:45 to 21:45	688	0	No	No
21:00 to 22:00	651	0	No	No
21:15 to 22:15	604	0	No	No
21:30 to 22:30	588	0	No	No
21:45 to 22:45	528	0	No	No
22:00 to 23:00	480	0	No	No
22:15 to 23:15	425	0	No	No
22:30 to 23:30	332	0	No	No
22:45 to 23:45	293	0	No	No
23:00 to 00:00	245	0	No	No
23:15 to 00:15	192	0	No	No
23:30 to 00:30	157	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **Yes**

Details:

Condition A Met?	Yes	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 7 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street Veh Volume > 300	Minor Street Avg(Veh + Ped + Bicycle) > 200	Delay > 30
12:30 to 13:30	1,051	214	0	0	0	0	False	No	No
13:30 to 14:30	1,005	240	0	0	0	0	False	No	No
14:30 to 15:30	1,056	200	0	0	0	0	False	No	No
15:30 to 16:30	1,265	205	0	0	0	0	False	No	No
16:30 to 17:30	1,271	200	0	0	0	0	False	No	No
17:45 to 18:45	1,273	214	0	0	0	0	False	No	No
18:45 to 19:45	1,112	201	0	0	0	0	False	No	No

Warrants Summary Report

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	Yes	
Condition A or B Met?	Yes	9 Hours met (8 required)
Condition A and B Met?	Yes	9 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	Yes	7 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 12 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****Yes****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****Yes**Condition A Met? **Yes**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

WARRANT 1 MET? Yes

Details:

Condition A Met? No 7 Hours met (8 required) at 100%

Condition B Met? Yes 9 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	95	16	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	89	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	91	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	76	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		62	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		54	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		54	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		98	7	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		101	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		95	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		74	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		33	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		29	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		40	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		67	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		88	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		145	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		158	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		144	14	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		146	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		117	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		131	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		157	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		208	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		288	26	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		314	31	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		341	35	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		342	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		319	28	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		361	27	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		423	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		511	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		645	56	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		764	81	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		815		110		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
08:45 to 09:45		824		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:00 to 10:00		786		133		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:15 to 10:15		750		131		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:30 to 10:30		788		130		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
09:45 to 10:45		795		154		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		853		156		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		846		152		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		855		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		875		137		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		876		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		934		173		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		965		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		990		187		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		990		196		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		1,017		196		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		1,035		214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		1,054		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		1,070	244	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:15 to 14:15		1,010	248	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:30 to 14:30		989	240	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:45 to 14:45		963	224	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:00 to 15:00		938	204	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:15 to 15:15		984	200	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

14:30 to 15:30		1,037	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:45 to 15:45		1,182	192	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:00 to 16:00		1,246	188	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:15 to 16:15		1,290	207	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:30 to 16:30		1,243	205	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:45 to 16:45		1,138	210	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

16:00 to 17:00	1,144	219	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes		

16:15 to 17:15	1,195	198	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes		

16:30 to 17:30	1,248	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes		

16:45 to 17:45	1,356	199	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes		

17:00 to 18:00	1,387	194	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes		

17:15 to 18:15	1,369	199	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes		

17:30 to 18:30		1,310	198		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
17:45 to 18:45		1,249	214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:00 to 19:00		1,203	225		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:15 to 19:15		1,172	215		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:30 to 19:30		1,175	215		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:45 to 19:45		1,094	201		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				

19:00 to 20:00		1,021		194		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		907		200		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		817		186		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:45 to 20:45		745		168		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
20:00 to 21:00		659		147		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
20:15 to 21:15		627		122		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					

20:30 to 21:30		589	119	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
20:45 to 21:45		565	114	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:00 to 22:00		543	99	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:15 to 22:15		500	96	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:30 to 22:30		496	84	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes			
21:45 to 22:45		453	67	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		411	61	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		365	52	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		291	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		253	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		211	29	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		167	22	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		135	20		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		101	16		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

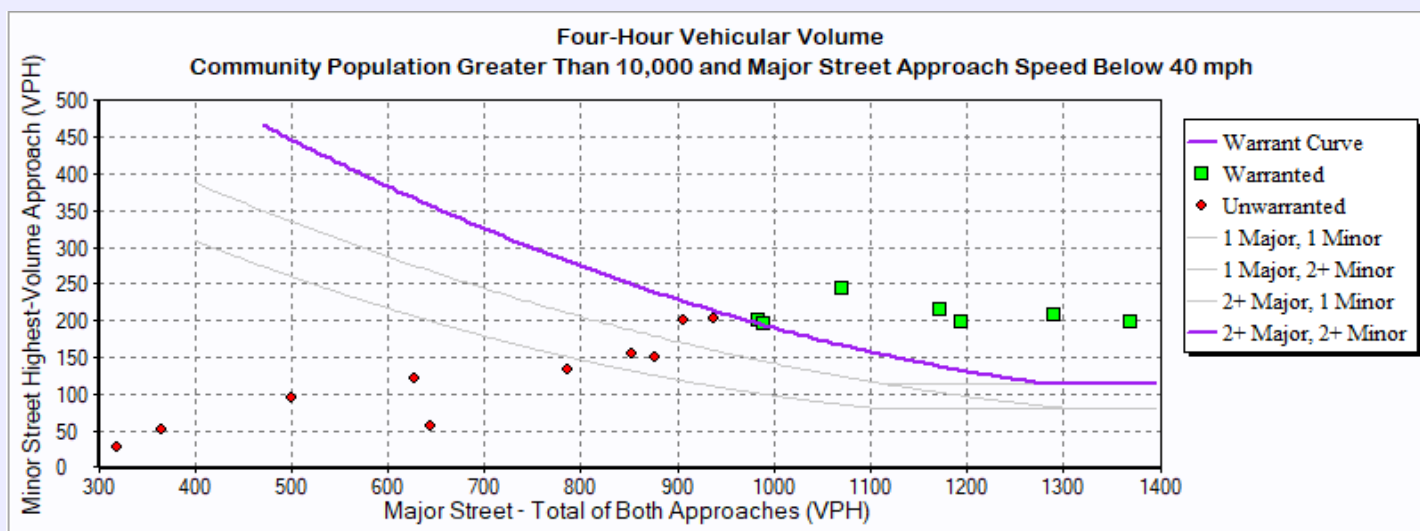
	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **Yes**

Details:

Notes 7 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	95	16
01:00:00 - 02:00:00	62	3
02:00:00 - 03:00:00	101	5
03:00:00 - 04:00:00	29	2
04:00:00 - 05:00:00	145	8
05:00:00 - 06:00:00	117	9
06:00:00 - 07:00:00	288	26
07:00:00 - 08:00:00	319	28
08:00:00 - 09:00:00	645	56
09:00:00 - 10:00:00	786	133
10:00:00 - 11:00:00	853	156
11:00:00 - 12:00:00	876	150
12:00:00 - 13:00:00	990	196
13:00:00 - 14:00:00	1070	244
14:00:00 - 15:00:00	938	204
15:00:00 - 16:00:00	1246	188
16:00:00 - 17:00:00	1144	219
17:00:00 - 18:00:00	1387	194
18:00:00 - 19:00:00	1203	225
19:00:00 - 20:00:00	1021	194
20:00:00 - 21:00:00	659	147
21:00:00 - 22:00:00	543	99
22:00:00 - 23:00:00	411	61
23:00:00 - 00:00:00	211	29

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
12:00:00 - 13:00:00	990.00	196.00
13:00:00 - 14:00:00	1,070.00	244.00
14:15:00 - 15:15:00	984.00	200.00
15:15:00 - 16:15:00	1,290.00	207.00
16:15:00 - 17:15:00	1,195.00	198.00
17:15:00 - 18:15:00	1,369.00	199.00
18:15:00 - 19:15:00	1,172.00	215.00

Warrant 3: Peak Hour

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

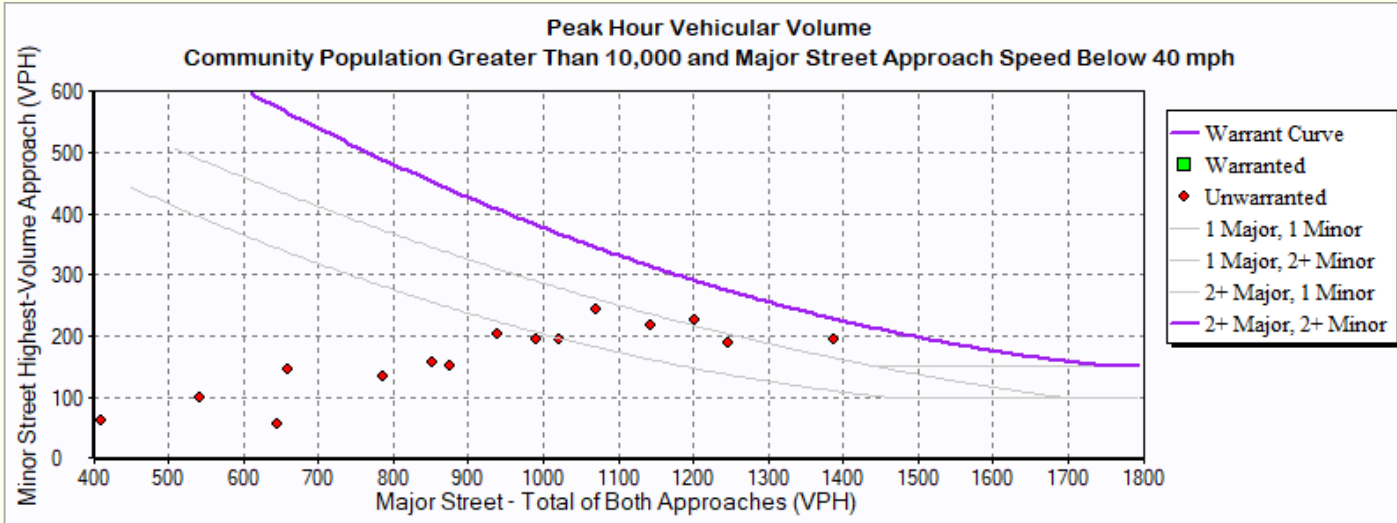
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	95	16
1:00	62	3
2:00	101	5
3:00	29	2
4:00	145	8
5:00	117	9

6:00	288	26
7:00	319	28
8:00	645	56
9:00	786	133
10:00	853	156
11:00	876	150
12:00	990	196
13:00	1,070	244
14:00	938	204
15:00	1,246	188
16:00	1,144	219
17:00	1,387	194
18:00	1,203	225
19:00	1,021	194
20:00	659	147
21:00	543	99
22:00	411	61
23:00	211	29

Warrant 4: Pedestrian Volume

3: Spreckels Ave & Phoenix Dr

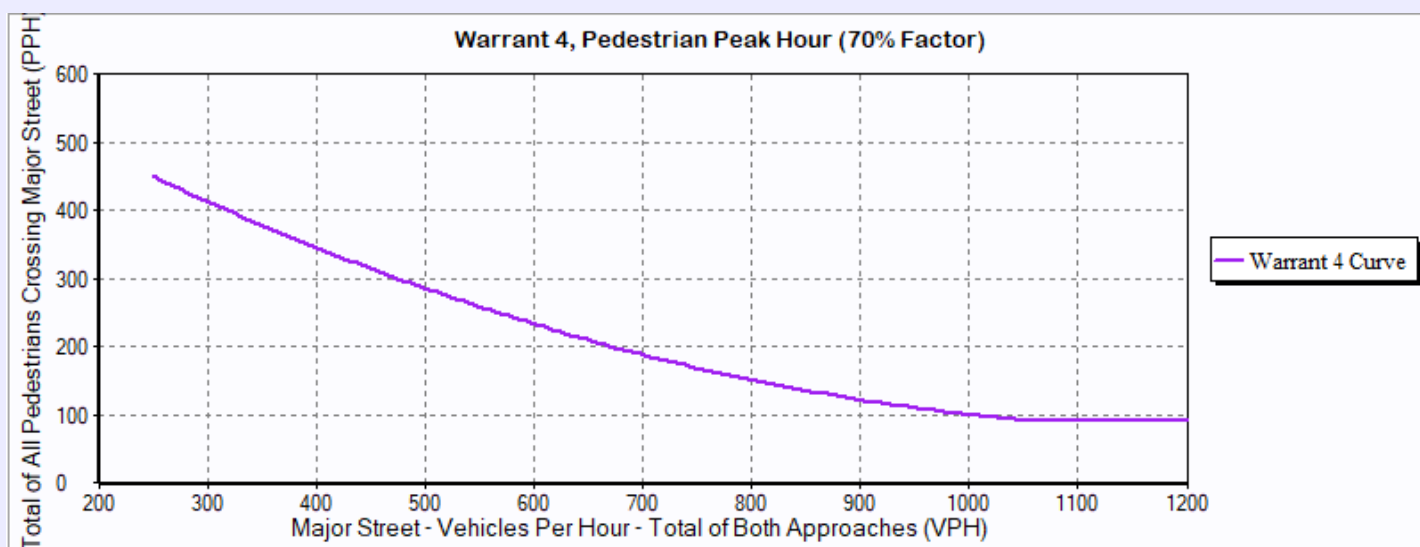
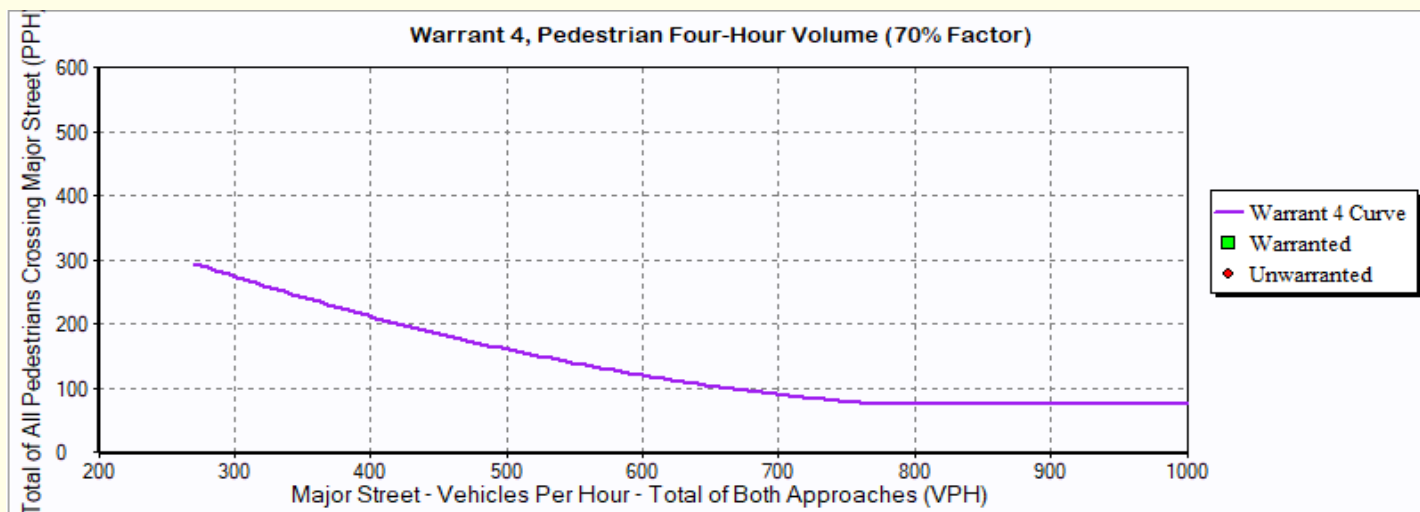
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? No

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? No

Adjacent Signal on NB approach? No

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? No

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? No

Warrant 6: Coordinated Signal System

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Phoenix Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		12 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	95	16	No	No	0	No	0	No
00:15 to 01:15	89	12	No	No	0	No	0	No
00:30 to 01:30	91	9	No	No	0	No	0	No
00:45 to 01:45	76	4	No	No	0	No	0	No
01:00 to 02:00	62	3	No	No	0	No	0	No
01:15 to 02:15	54	5	No	No	0	No	0	No
01:30 to 02:30	54	6	No	No	0	No	0	No
01:45 to 02:45	98	7	No	No	0	No	0	No

02:00 to 03:00	101	5	No	No	0	No	0	No
02:15 to 03:15	95	5	No	No	0	No	0	No
02:30 to 03:30	74	3	No	No	0	No	0	No
02:45 to 03:45	33	2	No	No	0	No	0	No
03:00 to 04:00	29	2	No	No	0	No	0	No
03:15 to 04:15	40	1	No	No	0	No	0	No
03:30 to 04:30	67	1	No	No	0	No	0	No
03:45 to 04:45	88	3	No	No	0	No	0	No
04:00 to 05:00	145	8	No	No	0	No	0	No
04:15 to 05:15	158	11	No	No	0	No	0	No
04:30 to 05:30	144	14	No	No	0	No	0	No
04:45 to 05:45	146	12	No	No	0	No	0	No
05:00 to 06:00	117	9	No	No	0	No	0	No
05:15 to 06:15	131	8	No	No	0	No	0	No
05:30 to 06:30	157	9	No	No	0	No	0	No
05:45 to 06:45	208	19	No	No	0	No	0	No
06:00 to 07:00	288	26	No	No	0	No	0	No
06:15 to 07:15	314	31	No	No	0	No	0	No

06:30 to 07:30	341	35	No	No	0	No	0	No
06:45 to 07:45	342	33	No	No	0	No	0	No
07:00 to 08:00	319	28	No	No	0	No	0	No
07:15 to 08:15	361	27	No	No	0	No	0	No
07:30 to 08:30	423	33	No	No	0	No	0	No
07:45 to 08:45	511	40	No	No	0	No	0	No
08:00 to 09:00	645	56	No	No	0	No	0	No
08:15 to 09:15	764	81	No*	Yes*	0	No	0	No
08:30 to 09:30	815	110	No	Yes	0	No	0	No
08:45 to 09:45	824	122	No	Yes	0	No	0	No
09:00 to 10:00	786	133	No	Yes	0	No	0	No
09:15 to 10:15	750	131	No*	Yes*	0	No	0	No
09:30 to 10:30	788	130	No	Yes	0	No	0	No
09:45 to 10:45	795	154	No	Yes	0	No	0	No
10:00 to 11:00	853	156	No	Yes	0	No	0	No
10:15 to 11:15	846	152	No*	Yes*	0	No	0	No
10:30 to 11:30	855	148	No	Yes	0	No	0	No
10:45 to 11:45	875	137	No	Yes	0	No	0	No

11:00 to 12:00	876	150	No	Yes	0	No	0	No
11:15 to 12:15	934	173	Yes*	Yes*	0	No	0	No
11:30 to 12:30	965	179	Yes	Yes	0	No	0	No
11:45 to 12:45	990	187	Yes	Yes	0	No	0	No
12:00 to 13:00	990	196	Yes	Yes	0	No	0	No
12:15 to 13:15	1,017	196	Yes*	Yes*	0	No	0	No
12:30 to 13:30	1,035	214	Yes	Yes	0	No	0	No
12:45 to 13:45	1,054	234	Yes	Yes	0	No	0	No
13:00 to 14:00	1,070	244	Yes	Yes	0	No	0	No
13:15 to 14:15	1,010	248	Yes*	Yes*	0	No	0	No
13:30 to 14:30	989	240	Yes	Yes	0	No	0	No
13:45 to 14:45	963	224	Yes	Yes	0	No	0	No
14:00 to 15:00	938	204	Yes	Yes	0	No	0	No
14:15 to 15:15	984	200	Yes*	Yes*	0	No	0	No
14:30 to 15:30	1,037	200	Yes	Yes	0	No	0	No
14:45 to 15:45	1,182	192	Yes	Yes	0	No	0	No
15:00 to 16:00	1,246	188	Yes	Yes	0	No	0	No
15:15 to 16:15	1,290	207	Yes*	Yes*	0	No	0	No

15:30 to 16:30	1,243	205	Yes	Yes	0	No	0	No
15:45 to 16:45	1,138	210	Yes	Yes	0	No	0	No
16:00 to 17:00	1,144	219	Yes	Yes	0	No	0	No
16:15 to 17:15	1,195	198	Yes*	Yes*	0	No	0	No
16:30 to 17:30	1,248	200	Yes	Yes	0	No	0	No
16:45 to 17:45	1,356	199	Yes	Yes	0	No	0	No
17:00 to 18:00	1,387	194	Yes	Yes	0	No	0	No
17:15 to 18:15	1,369	199	Yes*	Yes*	0	No	0	No
17:30 to 18:30	1,310	198	Yes	Yes	0	No	0	No
17:45 to 18:45	1,249	214	Yes	Yes	0	No	0	No
18:00 to 19:00	1,203	225	Yes	Yes	0	No	0	No
18:15 to 19:15	1,172	215	Yes*	Yes*	0	No	0	No
18:30 to 19:30	1,175	215	Yes	Yes	0	No	0	No
18:45 to 19:45	1,094	201	Yes	Yes	0	No	0	No
19:00 to 20:00	1,021	194	Yes	Yes	0	No	0	No
19:15 to 20:15	907	200	Yes*	Yes*	0	No	0	No
19:30 to 20:30	817	186	Yes	Yes	0	No	0	No
19:45 to 20:45	745	168	Yes	Yes	0	No	0	No

20:00 to 21:00	659	147	No	No	0	No	0	No
20:15 to 21:15	627	122	No	No	0	No	0	No
20:30 to 21:30	589	119	No	No	0	No	0	No
20:45 to 21:45	565	114	No	No	0	No	0	No
21:00 to 22:00	543	99	No	No	0	No	0	No
21:15 to 22:15	500	96	No	No	0	No	0	No
21:30 to 22:30	496	84	No	No	0	No	0	No
21:45 to 22:45	453	67	No	No	0	No	0	No
22:00 to 23:00	411	61	No	No	0	No	0	No
22:15 to 23:15	365	52	No	No	0	No	0	No
22:30 to 23:30	291	34	No	No	0	No	0	No
22:45 to 23:45	253	33	No	No	0	No	0	No
23:00 to 00:00	211	29	No	No	0	No	0	No
23:15 to 00:15	167	22	No	No	0	No	0	No
23:30 to 00:30	135	20	No	No	0	No	0	No
23:45 to 00:45	101	16	No	No	0	No	0	No

Warrant 8: Roadway Network

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 8 MET? (A or B) **Yes**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,581	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,581	Third Highest Hour	0	0
Warrant 1 in 5 Years?	Yes	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	Yes	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **Yes**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

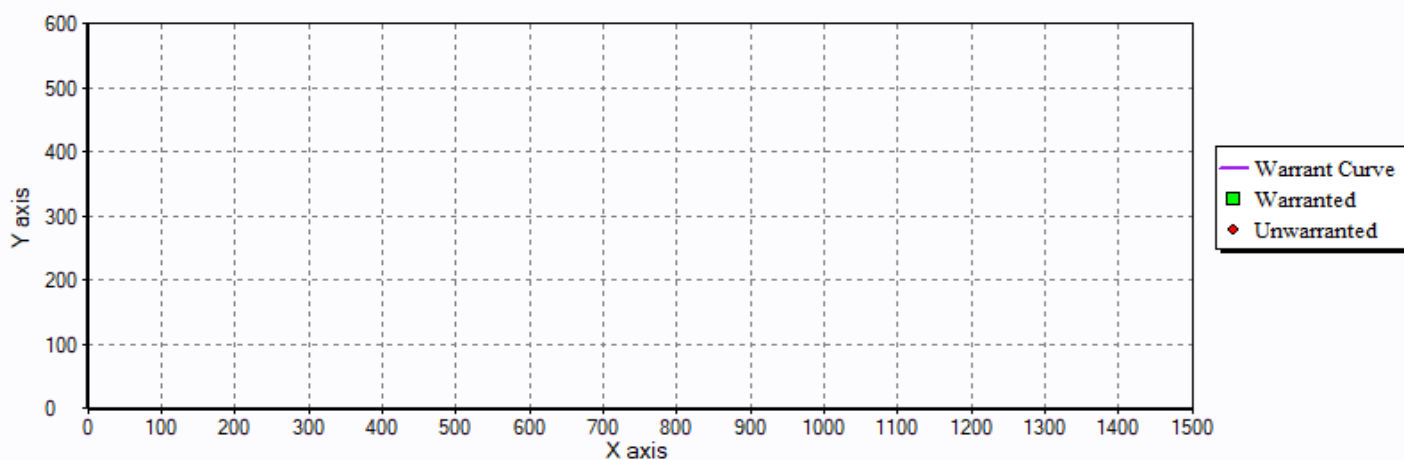
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	111	0	No	No
00:15 to 01:15	101	0	No	No
00:30 to 01:30	100	0	No	No
00:45 to 01:45	80	0	No	No
01:00 to 02:00	65	0	No	No
01:15 to 02:15	59	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	105	0	No	No
02:00 to 03:00	106	0	No	No
02:15 to 03:15	100	0	No	No
02:30 to 03:30	77	0	No	No
02:45 to 03:45	35	0	No	No
03:00 to 04:00	31	0	No	No
03:15 to 04:15	41	0	No	No
03:30 to 04:30	68	0	No	No
03:45 to 04:45	91	0	No	No
04:00 to 05:00	153	0	No	No
04:15 to 05:15	169	0	No	No
04:30 to 05:30	158	0	No	No
04:45 to 05:45	158	0	No	No
05:00 to 06:00	126	0	No	No

05:15 to 06:15	139	0	No	No
05:30 to 06:30	166	0	No	No
05:45 to 06:45	227	0	No	No
06:00 to 07:00	314	0	No	No
06:15 to 07:15	345	0	No	No
06:30 to 07:30	376	0	No	No
06:45 to 07:45	375	0	No	No
07:00 to 08:00	347	0	No	No
07:15 to 08:15	388	0	No	No
07:30 to 08:30	456	0	No	No
07:45 to 08:45	551	0	No	No
08:00 to 09:00	701	0	No	No
08:15 to 09:15	845	0	No	No
08:30 to 09:30	925	0	No	No
08:45 to 09:45	946	0	No	No
09:00 to 10:00	919	0	No	No
09:15 to 10:15	881	0	No	No
09:30 to 10:30	918	0	No	No
09:45 to 10:45	949	0	No	No
10:00 to 11:00	1,009	0	No	No
10:15 to 11:15	998	0	No	No
10:30 to 11:30	1,003	0	No	No
10:45 to 11:45	1,012	0	No	No
11:00 to 12:00	1,026	0	No	No
11:15 to 12:15	1,107	0	No	No
11:30 to 12:30	1,144	0	No	No
11:45 to 12:45	1,177	0	No	No
12:00 to 13:00	1,186	0	No	No
12:15 to 13:15	1,213	0	No	No
12:30 to 13:30	1,249	0	No	No
12:45 to 13:45	1,288	0	No	No
13:00 to 14:00	1,314	0	No	No
13:15 to 14:15	1,258	0	No	No
13:30 to 14:30	1,229	0	No	No
13:45 to 14:45	1,187	0	No	No
14:00 to 15:00	1,142	0	No	No
14:15 to 15:15	1,184	0	No	No

14:30 to 15:30	1,237	0	No	No
14:45 to 15:45	1,374	0	No	No
15:00 to 16:00	1,434	0	No	No
15:15 to 16:15	1,497	0	No	No
15:30 to 16:30	1,448	0	No	No
15:45 to 16:45	1,348	0	No	No
16:00 to 17:00	1,363	0	No	No
16:15 to 17:15	1,393	0	No	No
16:30 to 17:30	1,448	0	No	No
16:45 to 17:45	1,555	0	No	No
17:00 to 18:00	1,581	0	No*	No*
17:15 to 18:15	1,568	0	No	No
17:30 to 18:30	1,508	0	No	No
17:45 to 18:45	1,463	0	No	No
18:00 to 19:00	1,428	0	No	No
18:15 to 19:15	1,387	0	No	No
18:30 to 19:30	1,390	0	No	No
18:45 to 19:45	1,295	0	No	No
19:00 to 20:00	1,215	0	No	No
19:15 to 20:15	1,107	0	No	No
19:30 to 20:30	1,003	0	No	No
19:45 to 20:45	913	0	No	No
20:00 to 21:00	806	0	No	No
20:15 to 21:15	749	0	No	No
20:30 to 21:30	708	0	No	No
20:45 to 21:45	679	0	No	No
21:00 to 22:00	642	0	No	No
21:15 to 22:15	596	0	No	No
21:30 to 22:30	580	0	No	No
21:45 to 22:45	520	0	No	No
22:00 to 23:00	472	0	No	No
22:15 to 23:15	417	0	No	No
22:30 to 23:30	325	0	No	No
22:45 to 23:45	286	0	No	No
23:00 to 00:00	240	0	No	No
23:15 to 00:15	189	0	No	No
23:30 to 00:30	155	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **Yes**

Details:

Condition A Met?	Yes	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 7 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street Veh Volume > 300	Minor Street Avg(Veh + Ped + Bicycle) > 200	Delay > 30
12:30 to 13:30	1,035	214	0	0	0	0	False	No	No
13:30 to 14:30	989	240	0	0	0	0	False	No	No
14:30 to 15:30	1,037	200	0	0	0	0	False	No	No
15:30 to 16:30	1,243	205	0	0	0	0	False	No	No
16:30 to 17:30	1,248	200	0	0	0	0	False	No	No
17:45 to 18:45	1,249	214	0	0	0	0	False	No	No
18:45 to 19:45	1,094	201	0	0	0	0	False	No	No

Warrants Summary Report

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	Yes	
Condition A or B Met?	Yes	9 Hours met (8 required)
Condition A and B Met?	Yes	9 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	Yes	7 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **Yes** 12 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****Yes****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****Yes**Condition A Met? **Yes**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

WARRANT 1 MET? Yes

Details:

Condition A Met? No 7 Hours met (8 required) at 100%

Condition B Met? Yes 9 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	95	16	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	89	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	91	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	76	4	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		62	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		54	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		54	6	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		99	7	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		102	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		96	5	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		75	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		33	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		29	2	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		40	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		67	1	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		89	3	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		147	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		160	11	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		146	14	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		147	12	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		118	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		133	8	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		160	9	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		213	19	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		295	26	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		322	31	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		350	35	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		351	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		327	28	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		369	27	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		431	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		521	40	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		657	56	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		779	81	No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

08:30 to 09:30		831		110		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

08:45 to 09:45		840		122		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

09:00 to 10:00		801		133		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

09:15 to 10:15		764		131		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

09:30 to 10:30		803		130		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

09:45 to 10:45		810		154		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

10:00 to 11:00		869		156		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:15 to 11:15		861		152		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:30 to 11:30		870		148		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
10:45 to 11:45		890		137		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:00 to 12:00		891		150		No	No	No	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:15 to 12:15		950		173		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

11:30 to 12:30		981		179		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
11:45 to 12:45		1,006		187		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:00 to 13:00		1,006		196		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:15 to 13:15		1,033		196		No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:30 to 13:30		1,051		214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
12:45 to 13:45		1,070		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					

13:00 to 14:00		1,086	244	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:15 to 14:15		1,026	248	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:30 to 14:30		1,005	240	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
13:45 to 14:45		979	224	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:00 to 15:00		954	204	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:15 to 15:15		1,001	200	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

14:30 to 15:30		1,056	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
14:45 to 15:45		1,203	192	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:00 to 16:00		1,269	188	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:15 to 16:15		1,313	207	Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:30 to 16:30		1,265	205	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
15:45 to 16:45		1,159	210	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

16:00 to 17:00		1,165	219	Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:15 to 17:15		1,217	198	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:30 to 17:30		1,271	200	Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
16:45 to 17:45		1,381	199	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:00 to 18:00		1,413	194	No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			
17:15 to 18:15		1,395	199	No	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes			

17:30 to 18:30		1,335	198		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
17:45 to 18:45		1,273	214		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:00 to 19:00		1,225	225		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:15 to 19:15		1,193	215		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:30 to 19:30		1,195	215		Yes	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				
18:45 to 19:45		1,112	201		Yes*	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes				
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes				
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes				
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes				

19:00 to 20:00		1,039		194		No	Yes	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:15 to 20:15		924		200		Yes	Yes*	Yes*	Yes*
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	Yes					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:30 to 20:30		833		186		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
19:45 to 20:45		761		168		No	No	Yes	Yes
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	Yes					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	Yes					
20:00 to 21:00		672		147		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					
20:15 to 21:15		639		122		No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No					
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No					
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes					
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes					

20:30 to 21:30	600	119	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

20:45 to 21:45	574	114	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	Yes		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:00 to 22:00	552	99	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:15 to 22:15	508	96	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:30 to 22:30	504	84	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	Yes		

21:45 to 22:45	461	67	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

22:00 to 23:00		419	61	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		373	52	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		298	34	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		260	33	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		216	29	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		170	22	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		137	20		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		101	16		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

3: Spreckels Ave & Phoenix Dr

Intersection Information:

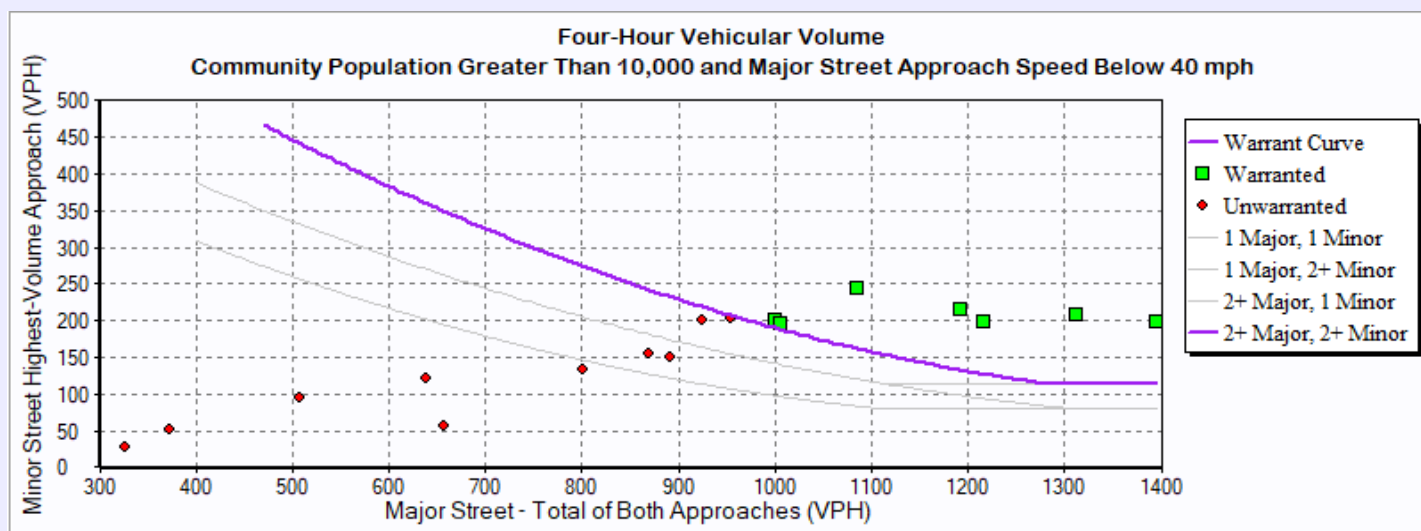
	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **Yes**

Details:

Notes 7 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	95	16
01:00:00 - 02:00:00	62	3
02:00:00 - 03:00:00	102	5
03:00:00 - 04:00:00	29	2
04:00:00 - 05:00:00	147	8
05:00:00 - 06:00:00	118	9
06:00:00 - 07:00:00	295	26
07:00:00 - 08:00:00	327	28
08:00:00 - 09:00:00	657	56
09:00:00 - 10:00:00	801	133
10:00:00 - 11:00:00	869	156
11:00:00 - 12:00:00	891	150
12:00:00 - 13:00:00	1006	196
13:00:00 - 14:00:00	1086	244
14:00:00 - 15:00:00	954	204
15:00:00 - 16:00:00	1269	188
16:00:00 - 17:00:00	1165	219
17:00:00 - 18:00:00	1413	194
18:00:00 - 19:00:00	1225	225
19:00:00 - 20:00:00	1039	194
20:00:00 - 21:00:00	672	147
21:00:00 - 22:00:00	552	99
22:00:00 - 23:00:00	419	61
23:00:00 - 00:00:00	216	29

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
12:00:00 - 13:00:00	1,006.00	196.00
13:00:00 - 14:00:00	1,086.00	244.00
14:15:00 - 15:15:00	1,001.00	200.00
15:15:00 - 16:15:00	1,313.00	207.00
16:15:00 - 17:15:00	1,217.00	198.00
17:15:00 - 18:15:00	1,395.00	199.00
18:15:00 - 19:15:00	1,193.00	215.00

Warrant 3: Peak Hour

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

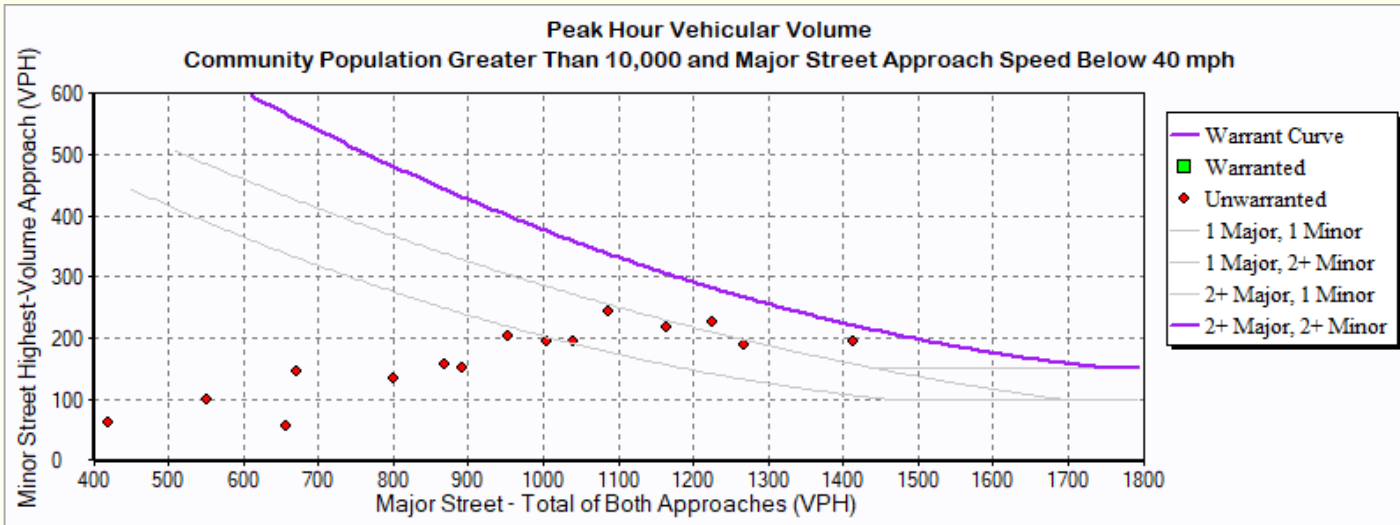
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	95	16
1:00	62	3
2:00	102	5
3:00	29	2
4:00	147	8
5:00	118	9

6:00	295	26
7:00	327	28
8:00	657	56
9:00	801	133
10:00	869	156
11:00	891	150
12:00	1,006	196
13:00	1,086	244
14:00	954	204
15:00	1,269	188
16:00	1,165	219
17:00	1,413	194
18:00	1,225	225
19:00	1,039	194
20:00	672	147
21:00	552	99
22:00	419	61
23:00	216	29

Warrant 4: Pedestrian Volume

3: Spreckels Ave & Phoenix Dr

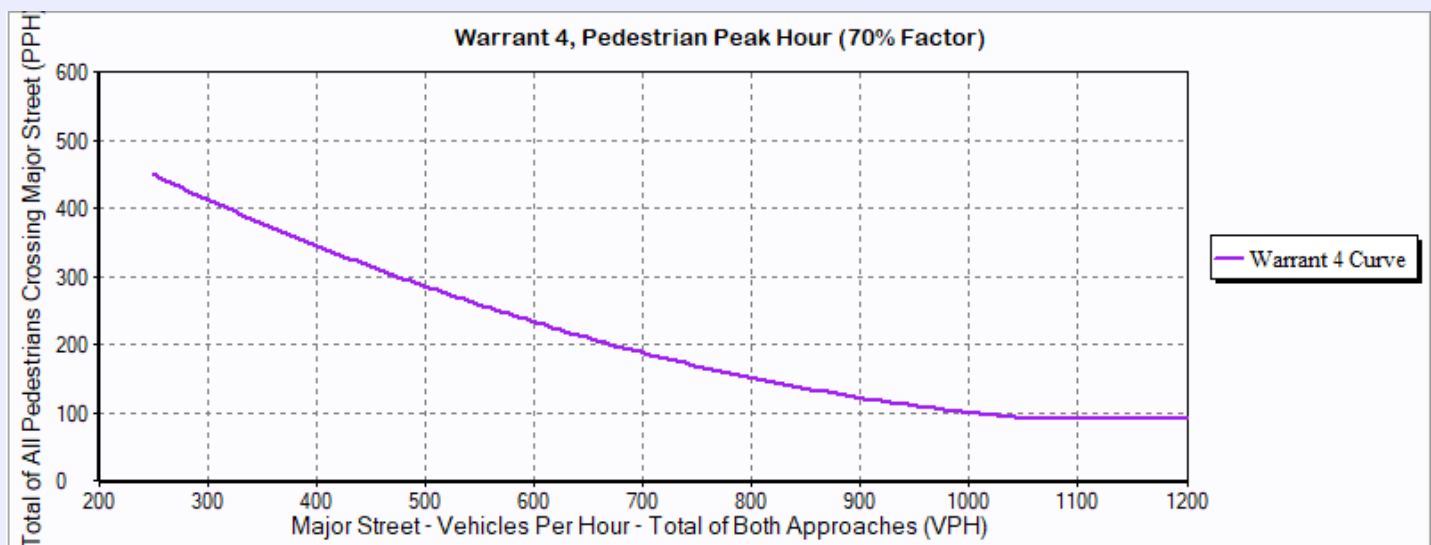
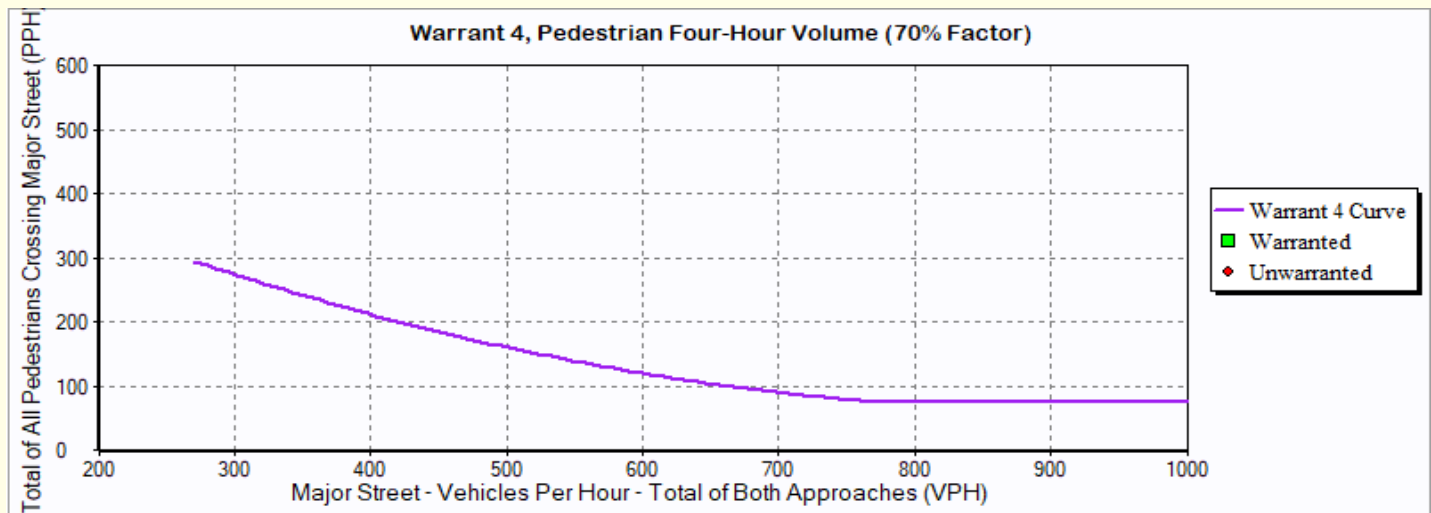
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Phoenix Dr)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	Yes
Major Street Speed Limit	40		12 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
	Qualifying Crashes	0	
	Adequate Alternative Trials?	No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	95	16	No	No	0	No	0	No
00:15 to 01:15	89	12	No	No	0	No	0	No
00:30 to 01:30	91	9	No	No	0	No	0	No
00:45 to 01:45	76	4	No	No	0	No	0	No
01:00 to 02:00	62	3	No	No	0	No	0	No
01:15 to 02:15	54	5	No	No	0	No	0	No
01:30 to 02:30	54	6	No	No	0	No	0	No
01:45 to 02:45	99	7	No	No	0	No	0	No

02:00 to 03:00	102	5	No	No	0	No	0	No
02:15 to 03:15	96	5	No	No	0	No	0	No
02:30 to 03:30	75	3	No	No	0	No	0	No
02:45 to 03:45	33	2	No	No	0	No	0	No
03:00 to 04:00	29	2	No	No	0	No	0	No
03:15 to 04:15	40	1	No	No	0	No	0	No
03:30 to 04:30	67	1	No	No	0	No	0	No
03:45 to 04:45	89	3	No	No	0	No	0	No
04:00 to 05:00	147	8	No	No	0	No	0	No
04:15 to 05:15	160	11	No	No	0	No	0	No
04:30 to 05:30	146	14	No	No	0	No	0	No
04:45 to 05:45	147	12	No	No	0	No	0	No
05:00 to 06:00	118	9	No	No	0	No	0	No
05:15 to 06:15	133	8	No	No	0	No	0	No
05:30 to 06:30	160	9	No	No	0	No	0	No
05:45 to 06:45	213	19	No	No	0	No	0	No
06:00 to 07:00	295	26	No	No	0	No	0	No
06:15 to 07:15	322	31	No	No	0	No	0	No

06:30 to 07:30	350	35	No	No	0	No	0	No
06:45 to 07:45	351	33	No	No	0	No	0	No
07:00 to 08:00	327	28	No	No	0	No	0	No
07:15 to 08:15	369	27	No	No	0	No	0	No
07:30 to 08:30	431	33	No	No	0	No	0	No
07:45 to 08:45	521	40	No	No	0	No	0	No
08:00 to 09:00	657	56	No	No	0	No	0	No
08:15 to 09:15	779	81	No*	Yes*	0	No	0	No
08:30 to 09:30	831	110	No	Yes	0	No	0	No
08:45 to 09:45	840	122	No	Yes	0	No	0	No
09:00 to 10:00	801	133	No	Yes	0	No	0	No
09:15 to 10:15	764	131	No*	Yes*	0	No	0	No
09:30 to 10:30	803	130	No	Yes	0	No	0	No
09:45 to 10:45	810	154	No	Yes	0	No	0	No
10:00 to 11:00	869	156	No	Yes	0	No	0	No
10:15 to 11:15	861	152	No*	Yes*	0	No	0	No
10:30 to 11:30	870	148	No	Yes	0	No	0	No
10:45 to 11:45	890	137	No	Yes	0	No	0	No

11:00 to 12:00	891	150	No	Yes	0	No	0	No
11:15 to 12:15	950	173	Yes*	Yes*	0	No	0	No
11:30 to 12:30	981	179	Yes	Yes	0	No	0	No
11:45 to 12:45	1,006	187	Yes	Yes	0	No	0	No
12:00 to 13:00	1,006	196	Yes	Yes	0	No	0	No
12:15 to 13:15	1,033	196	Yes*	Yes*	0	No	0	No
12:30 to 13:30	1,051	214	Yes	Yes	0	No	0	No
12:45 to 13:45	1,070	234	Yes	Yes	0	No	0	No
13:00 to 14:00	1,086	244	Yes	Yes	0	No	0	No
13:15 to 14:15	1,026	248	Yes*	Yes*	0	No	0	No
13:30 to 14:30	1,005	240	Yes	Yes	0	No	0	No
13:45 to 14:45	979	224	Yes	Yes	0	No	0	No
14:00 to 15:00	954	204	Yes	Yes	0	No	0	No
14:15 to 15:15	1,001	200	Yes*	Yes*	0	No	0	No
14:30 to 15:30	1,056	200	Yes	Yes	0	No	0	No
14:45 to 15:45	1,203	192	Yes	Yes	0	No	0	No
15:00 to 16:00	1,269	188	Yes	Yes	0	No	0	No
15:15 to 16:15	1,313	207	Yes*	Yes*	0	No	0	No

15:30 to 16:30	1,265	205	Yes	Yes	0	No	0	No
15:45 to 16:45	1,159	210	Yes	Yes	0	No	0	No
16:00 to 17:00	1,165	219	Yes	Yes	0	No	0	No
16:15 to 17:15	1,217	198	Yes*	Yes*	0	No	0	No
16:30 to 17:30	1,271	200	Yes	Yes	0	No	0	No
16:45 to 17:45	1,381	199	Yes	Yes	0	No	0	No
17:00 to 18:00	1,413	194	Yes	Yes	0	No	0	No
17:15 to 18:15	1,395	199	Yes*	Yes*	0	No	0	No
17:30 to 18:30	1,335	198	Yes	Yes	0	No	0	No
17:45 to 18:45	1,273	214	Yes	Yes	0	No	0	No
18:00 to 19:00	1,225	225	Yes	Yes	0	No	0	No
18:15 to 19:15	1,193	215	Yes*	Yes*	0	No	0	No
18:30 to 19:30	1,195	215	Yes	Yes	0	No	0	No
18:45 to 19:45	1,112	201	Yes	Yes	0	No	0	No
19:00 to 20:00	1,039	194	Yes	Yes	0	No	0	No
19:15 to 20:15	924	200	Yes*	Yes*	0	No	0	No
19:30 to 20:30	833	186	Yes	Yes	0	No	0	No
19:45 to 20:45	761	168	Yes	Yes	0	No	0	No

20:00 to 21:00	672	147	No	No	0	No	0	No
20:15 to 21:15	639	122	No	No	0	No	0	No
20:30 to 21:30	600	119	No	No	0	No	0	No
20:45 to 21:45	574	114	No	No	0	No	0	No
21:00 to 22:00	552	99	No	No	0	No	0	No
21:15 to 22:15	508	96	No	No	0	No	0	No
21:30 to 22:30	504	84	No	No	0	No	0	No
21:45 to 22:45	461	67	No	No	0	No	0	No
22:00 to 23:00	419	61	No	No	0	No	0	No
22:15 to 23:15	373	52	No	No	0	No	0	No
22:30 to 23:30	298	34	No	No	0	No	0	No
22:45 to 23:45	260	33	No	No	0	No	0	No
23:00 to 00:00	216	29	No	No	0	No	0	No
23:15 to 00:15	170	22	No	No	0	No	0	No
23:30 to 00:30	137	20	No	No	0	No	0	No
23:45 to 00:45	101	16	No	No	0	No	0	No

Warrant 8: Roadway Network

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 8 MET? (A or B) **Yes**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,607	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,607	Third Highest Hour	0	0
Warrant 1 in 5 Years?	Yes	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	Yes	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **Yes**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

3: Spreckels Ave & Phoenix Dr

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Phoenix Dr
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

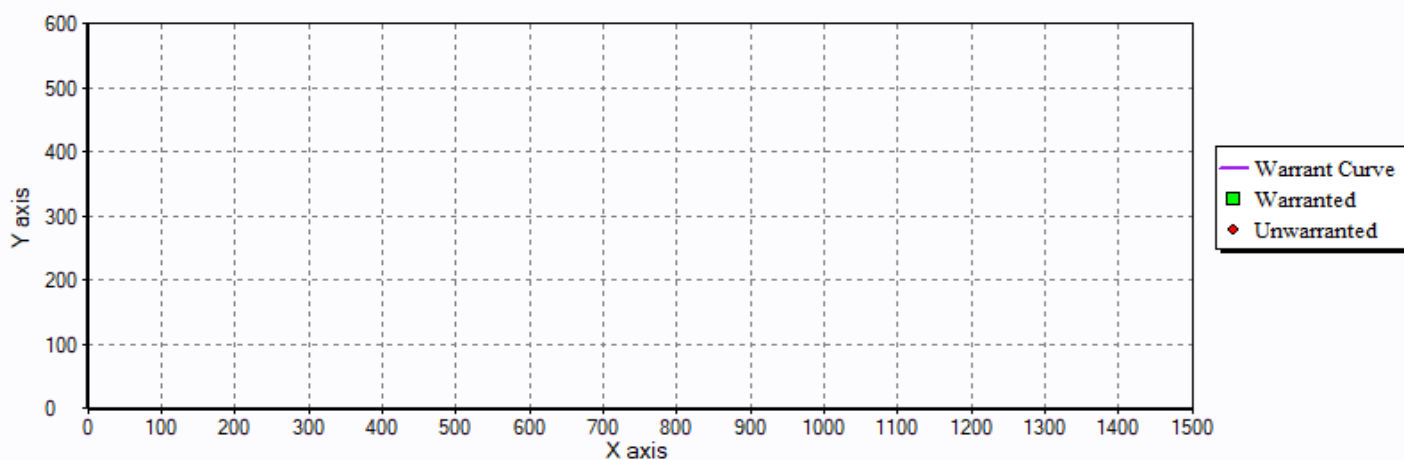
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	111	0	No	No
00:15 to 01:15	101	0	No	No
00:30 to 01:30	100	0	No	No
00:45 to 01:45	80	0	No	No
01:00 to 02:00	65	0	No	No
01:15 to 02:15	59	0	No	No
01:30 to 02:30	60	0	No	No
01:45 to 02:45	106	0	No	No
02:00 to 03:00	107	0	No	No
02:15 to 03:15	101	0	No	No
02:30 to 03:30	78	0	No	No
02:45 to 03:45	35	0	No	No
03:00 to 04:00	31	0	No	No
03:15 to 04:15	41	0	No	No
03:30 to 04:30	68	0	No	No
03:45 to 04:45	92	0	No	No
04:00 to 05:00	155	0	No	No
04:15 to 05:15	171	0	No	No
04:30 to 05:30	160	0	No	No
04:45 to 05:45	159	0	No	No
05:00 to 06:00	127	0	No	No

05:15 to 06:15	141	0	No	No
05:30 to 06:30	169	0	No	No
05:45 to 06:45	232	0	No	No
06:00 to 07:00	321	0	No	No
06:15 to 07:15	353	0	No	No
06:30 to 07:30	385	0	No	No
06:45 to 07:45	384	0	No	No
07:00 to 08:00	355	0	No	No
07:15 to 08:15	396	0	No	No
07:30 to 08:30	464	0	No	No
07:45 to 08:45	561	0	No	No
08:00 to 09:00	713	0	No	No
08:15 to 09:15	860	0	No	No
08:30 to 09:30	941	0	No	No
08:45 to 09:45	962	0	No	No
09:00 to 10:00	934	0	No	No
09:15 to 10:15	895	0	No	No
09:30 to 10:30	933	0	No	No
09:45 to 10:45	964	0	No	No
10:00 to 11:00	1,025	0	No	No
10:15 to 11:15	1,013	0	No	No
10:30 to 11:30	1,018	0	No	No
10:45 to 11:45	1,027	0	No	No
11:00 to 12:00	1,041	0	No	No
11:15 to 12:15	1,123	0	No	No
11:30 to 12:30	1,160	0	No	No
11:45 to 12:45	1,193	0	No	No
12:00 to 13:00	1,202	0	No	No
12:15 to 13:15	1,229	0	No	No
12:30 to 13:30	1,265	0	No	No
12:45 to 13:45	1,304	0	No	No
13:00 to 14:00	1,330	0	No	No
13:15 to 14:15	1,274	0	No	No
13:30 to 14:30	1,245	0	No	No
13:45 to 14:45	1,203	0	No	No
14:00 to 15:00	1,158	0	No	No
14:15 to 15:15	1,201	0	No	No

14:30 to 15:30	1,256	0	No	No
14:45 to 15:45	1,395	0	No	No
15:00 to 16:00	1,457	0	No	No
15:15 to 16:15	1,520	0	No	No
15:30 to 16:30	1,470	0	No	No
15:45 to 16:45	1,369	0	No	No
16:00 to 17:00	1,384	0	No	No
16:15 to 17:15	1,415	0	No	No
16:30 to 17:30	1,471	0	No	No
16:45 to 17:45	1,580	0	No	No
17:00 to 18:00	1,607	0	No*	No*
17:15 to 18:15	1,594	0	No	No
17:30 to 18:30	1,533	0	No	No
17:45 to 18:45	1,487	0	No	No
18:00 to 19:00	1,450	0	No	No
18:15 to 19:15	1,408	0	No	No
18:30 to 19:30	1,410	0	No	No
18:45 to 19:45	1,313	0	No	No
19:00 to 20:00	1,233	0	No	No
19:15 to 20:15	1,124	0	No	No
19:30 to 20:30	1,019	0	No	No
19:45 to 20:45	929	0	No	No
20:00 to 21:00	819	0	No	No
20:15 to 21:15	761	0	No	No
20:30 to 21:30	719	0	No	No
20:45 to 21:45	688	0	No	No
21:00 to 22:00	651	0	No	No
21:15 to 22:15	604	0	No	No
21:30 to 22:30	588	0	No	No
21:45 to 22:45	528	0	No	No
22:00 to 23:00	480	0	No	No
22:15 to 23:15	425	0	No	No
22:30 to 23:30	332	0	No	No
22:45 to 23:45	293	0	No	No
23:00 to 00:00	245	0	No	No
23:15 to 00:15	192	0	No	No
23:30 to 00:30	157	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

3: Spreckels Ave & Phoenix Dr

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **Yes**

Details:

Condition A Met?	Yes	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 7 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street Veh Volume > 300	Minor Street Avg(Veh + Ped + Bicycle) > 200	Delay > 30
12:30 to 13:30	1,051	214	0	0	0	0	False	No	No
13:30 to 14:30	1,005	240	0	0	0	0	False	No	No
14:30 to 15:30	1,056	200	0	0	0	0	False	No	No
15:30 to 16:30	1,265	205	0	0	0	0	False	No	No
16:30 to 17:30	1,271	200	0	0	0	0	False	No	No
17:45 to 18:45	1,273	214	0	0	0	0	False	No	No
18:45 to 19:45	1,112	201	0	0	0	0	False	No	No

Warrants Summary Report

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	0 Hours met (8 required)
Condition A and B Met?	No	0 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	0 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **No** 0 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%

Condition B Met? **No** 0 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	90	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	83	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	87	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	74	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		57	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		50	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		53	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		94	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		96	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		90	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		68	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		27	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		23	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		33	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		54	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		75	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		131	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		142	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		133	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		134	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		102	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		108	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		131	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		180	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		255	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		275	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		296	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		290	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		259	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:15 to 08:15		291	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:30 to 08:30		329	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:45 to 08:45		395	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:00 to 09:00		489	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:15 to 09:15		563	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:30 to 09:30		599	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:45 to 09:45		590	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:00 to 10:00		549	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:15 to 10:15		537	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:30 to 10:30		564	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:45 to 10:45		582	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

10:00 to 11:00	615	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

10:15 to 11:15	603	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

10:30 to 11:30	610	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

10:45 to 11:45	619	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:00 to 12:00	634	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:15 to 12:15	674	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:30 to 12:30	706	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:45 to 12:45	721	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:00 to 13:00	737	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:15 to 13:15	762	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:30 to 13:30	769	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:45 to 13:45	787	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

13:00 to 14:00		798	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:15 to 14:15		769	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:30 to 14:30		742	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:45 to 14:45		720	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:00 to 15:00		687	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

14:15 to 15:15		710	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

14:30 to 15:30		761	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
14:45 to 15:45		880	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:00 to 16:00		939	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:15 to 16:15		995	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:30 to 16:30		966	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:45 to 16:45		892	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

16:00 to 17:00	895	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:15 to 17:15	911	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:30 to 17:30	944	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:45 to 17:45	1,000	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:00 to 18:00	1,033	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:15 to 18:15	1,023	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:30 to 18:30		1,005	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
17:45 to 18:45		990	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:00 to 19:00		964	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:15 to 19:15		943	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:30 to 19:30		934	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:45 to 19:45		866	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

19:00 to 20:00		798	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

19:15 to 20:15		711	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

19:30 to 20:30		645	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

19:45 to 20:45		589	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:00 to 21:00		529	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:15 to 21:15		513	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:30 to 21:30		486	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:45 to 21:45		471	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:00 to 22:00		450	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:15 to 22:15		415	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:30 to 22:30		409	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:45 to 22:45		369	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		346	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		307	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		247	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		220	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		182	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		150	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		120	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		93	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

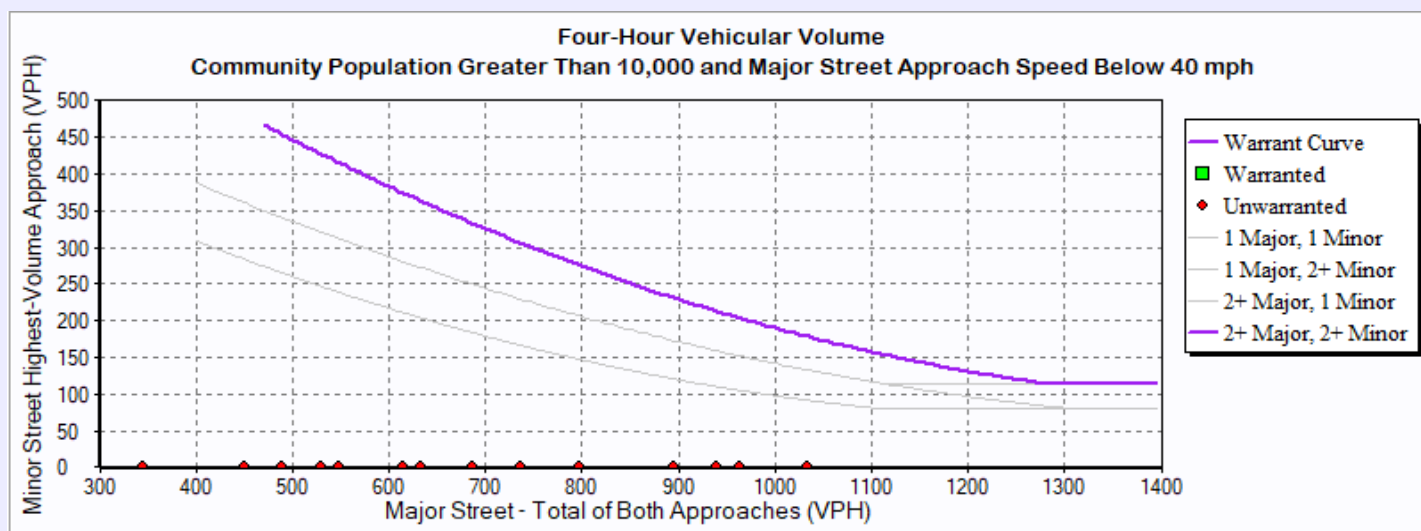
	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **No**

Details:

Notes 0 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	90	0
01:00:00 - 02:00:00	57	0
02:00:00 - 03:00:00	96	0
03:00:00 - 04:00:00	23	0
04:00:00 - 05:00:00	131	0
05:00:00 - 06:00:00	102	0
06:00:00 - 07:00:00	255	0
07:00:00 - 08:00:00	259	0
08:00:00 - 09:00:00	489	0
09:00:00 - 10:00:00	549	0
10:00:00 - 11:00:00	615	0
11:00:00 - 12:00:00	634	0
12:00:00 - 13:00:00	737	0
13:00:00 - 14:00:00	798	0
14:00:00 - 15:00:00	687	0
15:00:00 - 16:00:00	939	0
16:00:00 - 17:00:00	895	0
17:00:00 - 18:00:00	1033	0
18:00:00 - 19:00:00	964	0
19:00:00 - 20:00:00	798	0
20:00:00 - 21:00:00	529	0
21:00:00 - 22:00:00	450	0
22:00:00 - 23:00:00	346	0
23:00:00 - 00:00:00	182	0

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)

Warrant 3: Peak Hour

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

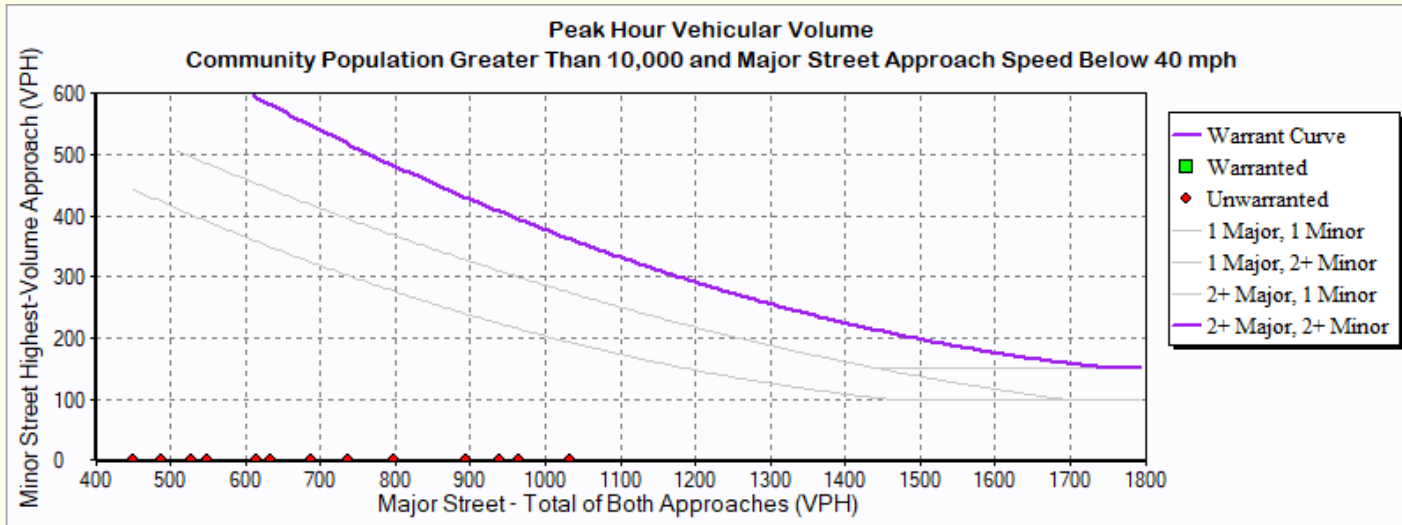
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	90	0
1:00	57	0
2:00	96	0
3:00	23	0
4:00	131	0
5:00	102	0

6:00	255	0
7:00	259	0
8:00	489	0
9:00	549	0
10:00	615	0
11:00	634	0
12:00	737	0
13:00	798	0
14:00	687	0
15:00	939	0
16:00	895	0
17:00	1,033	0
18:00	964	0
19:00	798	0
20:00	529	0
21:00	450	0
22:00	346	0
23:00	182	0

Warrant 4: Pedestrian Volume

4: Spreckels Ave & Dupont Ct

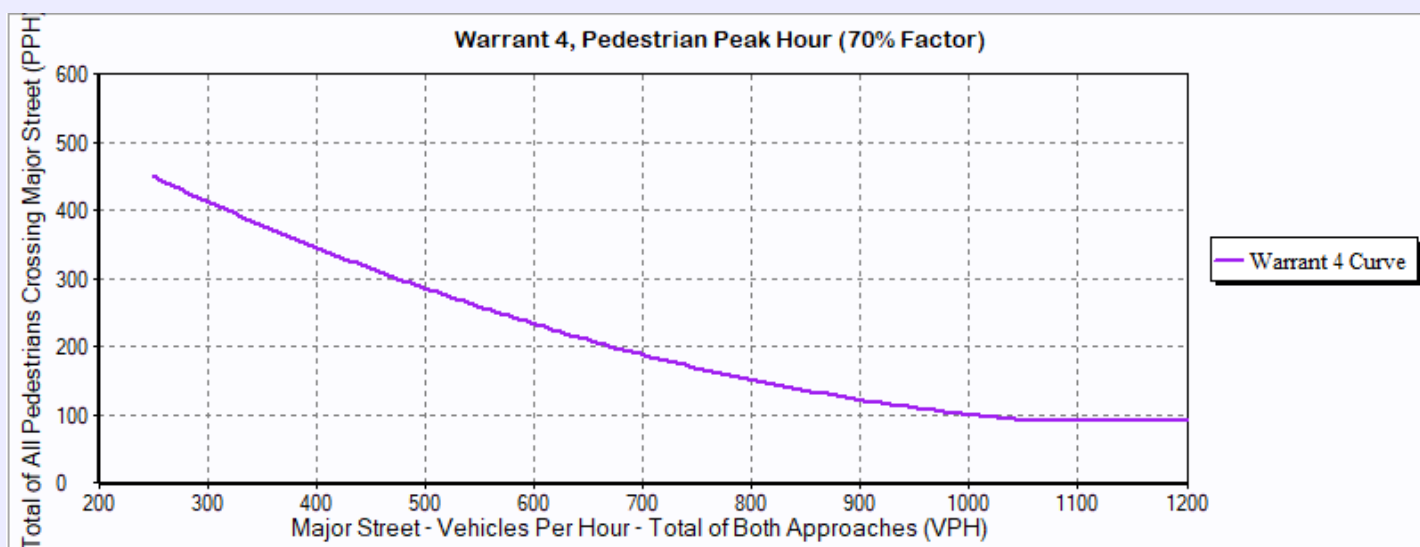
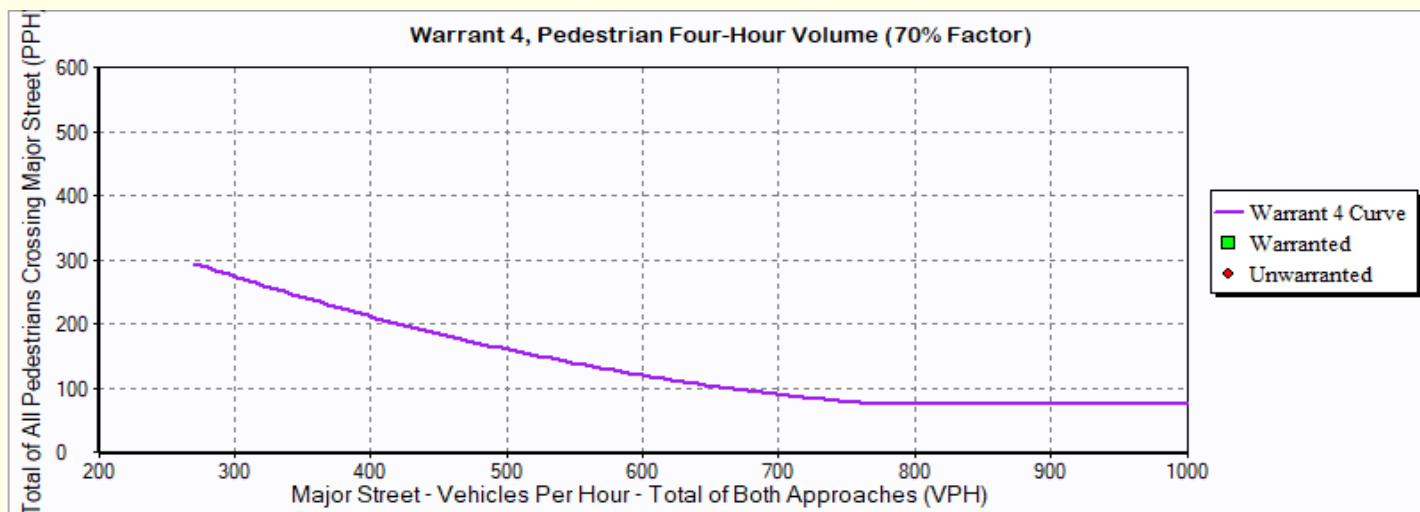
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Dupont Ct)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	No
Major Street Speed Limit	40		0 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
Qualifying Crashes		0	
Adequate Alternative Trials?		No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		> 80?
00:00 to 01:00	90	0	No	No	0	No	0	No
00:15 to 01:15	83	0	No	No	0	No	0	No
00:30 to 01:30	87	0	No	No	0	No	0	No
00:45 to 01:45	74	0	No	No	0	No	0	No
01:00 to 02:00	57	0	No	No	0	No	0	No
01:15 to 02:15	50	0	No	No	0	No	0	No
01:30 to 02:30	53	0	No	No	0	No	0	No
01:45 to 02:45	94	0	No	No	0	No	0	No

02:00 to 03:00	96	0	No	No	0	No	0	No
02:15 to 03:15	90	0	No	No	0	No	0	No
02:30 to 03:30	68	0	No	No	0	No	0	No
02:45 to 03:45	27	0	No	No	0	No	0	No
03:00 to 04:00	23	0	No	No	0	No	0	No
03:15 to 04:15	33	0	No	No	0	No	0	No
03:30 to 04:30	54	0	No	No	0	No	0	No
03:45 to 04:45	75	0	No	No	0	No	0	No
04:00 to 05:00	131	0	No	No	0	No	0	No
04:15 to 05:15	142	0	No	No	0	No	0	No
04:30 to 05:30	133	0	No	No	0	No	0	No
04:45 to 05:45	134	0	No	No	0	No	0	No
05:00 to 06:00	102	0	No	No	0	No	0	No
05:15 to 06:15	108	0	No	No	0	No	0	No
05:30 to 06:30	131	0	No	No	0	No	0	No
05:45 to 06:45	180	0	No	No	0	No	0	No
06:00 to 07:00	255	0	No	No	0	No	0	No
06:15 to 07:15	275	0	No	No	0	No	0	No

06:30 to 07:30	296	0	No	No	0	No	0	No
06:45 to 07:45	290	0	No	No	0	No	0	No
07:00 to 08:00	259	0	No	No	0	No	0	No
07:15 to 08:15	291	0	No	No	0	No	0	No
07:30 to 08:30	329	0	No	No	0	No	0	No
07:45 to 08:45	395	0	No	No	0	No	0	No
08:00 to 09:00	489	0	No	No	0	No	0	No
08:15 to 09:15	563	0	No	No	0	No	0	No
08:30 to 09:30	599	0	No	No	0	No	0	No
08:45 to 09:45	590	0	No	No	0	No	0	No
09:00 to 10:00	549	0	No	No	0	No	0	No
09:15 to 10:15	537	0	No	No	0	No	0	No
09:30 to 10:30	564	0	No	No	0	No	0	No
09:45 to 10:45	582	0	No	No	0	No	0	No
10:00 to 11:00	615	0	No	No	0	No	0	No
10:15 to 11:15	603	0	No	No	0	No	0	No
10:30 to 11:30	610	0	No	No	0	No	0	No
10:45 to 11:45	619	0	No	No	0	No	0	No

11:00 to 12:00	634	0	No	No	0	No	0	No
11:15 to 12:15	674	0	No	No	0	No	0	No
11:30 to 12:30	706	0	No	No	0	No	0	No
11:45 to 12:45	721	0	No	No	0	No	0	No
12:00 to 13:00	737	0	No	No	0	No	0	No
12:15 to 13:15	762	0	No	No	0	No	0	No
12:30 to 13:30	769	0	No	No	0	No	0	No
12:45 to 13:45	787	0	No	No	0	No	0	No
13:00 to 14:00	798	0	No	No	0	No	0	No
13:15 to 14:15	769	0	No	No	0	No	0	No
13:30 to 14:30	742	0	No	No	0	No	0	No
13:45 to 14:45	720	0	No	No	0	No	0	No
14:00 to 15:00	687	0	No	No	0	No	0	No
14:15 to 15:15	710	0	No	No	0	No	0	No
14:30 to 15:30	761	0	No	No	0	No	0	No
14:45 to 15:45	880	0	No	No	0	No	0	No
15:00 to 16:00	939	0	No	No	0	No	0	No
15:15 to 16:15	995	0	No	No	0	No	0	No

15:30 to 16:30	966	0	No	No	0	No	0	No
15:45 to 16:45	892	0	No	No	0	No	0	No
16:00 to 17:00	895	0	No	No	0	No	0	No
16:15 to 17:15	911	0	No	No	0	No	0	No
16:30 to 17:30	944	0	No	No	0	No	0	No
16:45 to 17:45	1,000	0	No	No	0	No	0	No
17:00 to 18:00	1,033	0	No	No	0	No	0	No
17:15 to 18:15	1,023	0	No	No	0	No	0	No
17:30 to 18:30	1,005	0	No	No	0	No	0	No
17:45 to 18:45	990	0	No	No	0	No	0	No
18:00 to 19:00	964	0	No	No	0	No	0	No
18:15 to 19:15	943	0	No	No	0	No	0	No
18:30 to 19:30	934	0	No	No	0	No	0	No
18:45 to 19:45	866	0	No	No	0	No	0	No
19:00 to 20:00	798	0	No	No	0	No	0	No
19:15 to 20:15	711	0	No	No	0	No	0	No
19:30 to 20:30	645	0	No	No	0	No	0	No
19:45 to 20:45	589	0	No	No	0	No	0	No

20:00 to 21:00	529	0	No	No	0	No	0	No
20:15 to 21:15	513	0	No	No	0	No	0	No
20:30 to 21:30	486	0	No	No	0	No	0	No
20:45 to 21:45	471	0	No	No	0	No	0	No
21:00 to 22:00	450	0	No	No	0	No	0	No
21:15 to 22:15	415	0	No	No	0	No	0	No
21:30 to 22:30	409	0	No	No	0	No	0	No
21:45 to 22:45	369	0	No	No	0	No	0	No
22:00 to 23:00	346	0	No	No	0	No	0	No
22:15 to 23:15	307	0	No	No	0	No	0	No
22:30 to 23:30	247	0	No	No	0	No	0	No
22:45 to 23:45	220	0	No	No	0	No	0	No
23:00 to 00:00	182	0	No	No	0	No	0	No
23:15 to 00:15	150	0	No	No	0	No	0	No
23:30 to 00:30	120	0	No	No	0	No	0	No
23:45 to 00:45	93	0	No	No	0	No	0	No

Warrant 8: Roadway Network

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name	Spreckels Ave
Major Street Direction	NB/SB
Minor Street Direction	WB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,033	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,033	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

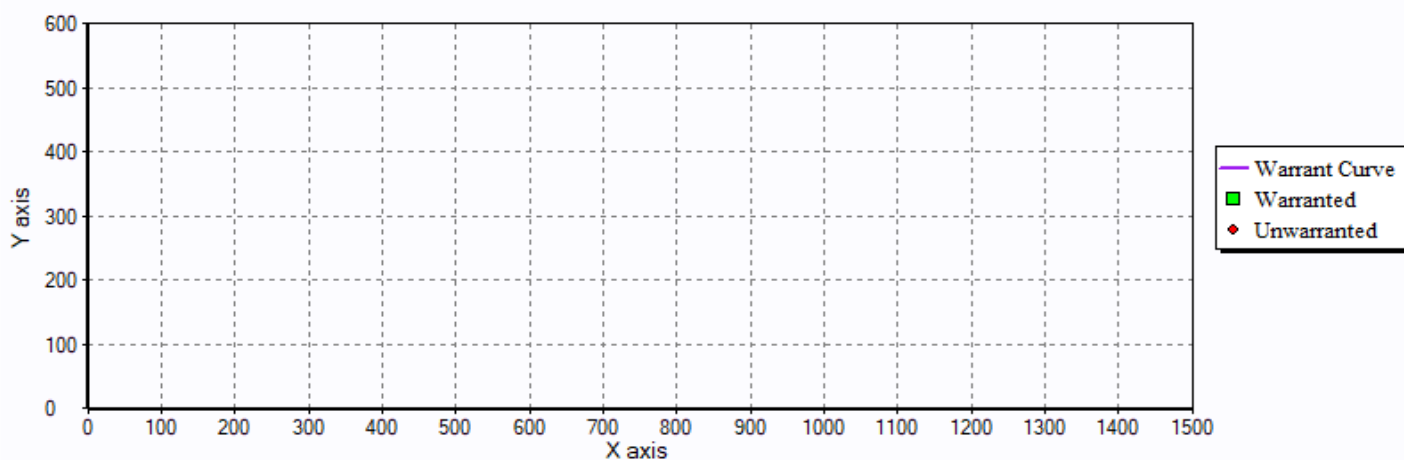
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	90	0	No	No
00:15 to 01:15	83	0	No	No
00:30 to 01:30	87	0	No	No
00:45 to 01:45	74	0	No	No
01:00 to 02:00	57	0	No	No
01:15 to 02:15	50	0	No	No
01:30 to 02:30	53	0	No	No
01:45 to 02:45	94	0	No	No
02:00 to 03:00	96	0	No	No
02:15 to 03:15	90	0	No	No
02:30 to 03:30	68	0	No	No
02:45 to 03:45	27	0	No	No
03:00 to 04:00	23	0	No	No
03:15 to 04:15	33	0	No	No
03:30 to 04:30	54	0	No	No
03:45 to 04:45	75	0	No	No
04:00 to 05:00	131	0	No	No
04:15 to 05:15	142	0	No	No
04:30 to 05:30	133	0	No	No
04:45 to 05:45	134	0	No	No
05:00 to 06:00	102	0	No	No

05:15 to 06:15	108	0	No	No
05:30 to 06:30	131	0	No	No
05:45 to 06:45	180	0	No	No
06:00 to 07:00	255	0	No	No
06:15 to 07:15	275	0	No	No
06:30 to 07:30	296	0	No	No
06:45 to 07:45	290	0	No	No
07:00 to 08:00	259	0	No	No
07:15 to 08:15	291	0	No	No
07:30 to 08:30	329	0	No	No
07:45 to 08:45	395	0	No	No
08:00 to 09:00	489	0	No	No
08:15 to 09:15	563	0	No	No
08:30 to 09:30	599	0	No	No
08:45 to 09:45	590	0	No	No
09:00 to 10:00	549	0	No	No
09:15 to 10:15	537	0	No	No
09:30 to 10:30	564	0	No	No
09:45 to 10:45	582	0	No	No
10:00 to 11:00	615	0	No	No
10:15 to 11:15	603	0	No	No
10:30 to 11:30	610	0	No	No
10:45 to 11:45	619	0	No	No
11:00 to 12:00	634	0	No	No
11:15 to 12:15	674	0	No	No
11:30 to 12:30	706	0	No	No
11:45 to 12:45	721	0	No	No
12:00 to 13:00	737	0	No	No
12:15 to 13:15	762	0	No	No
12:30 to 13:30	769	0	No	No
12:45 to 13:45	787	0	No	No
13:00 to 14:00	798	0	No	No
13:15 to 14:15	769	0	No	No
13:30 to 14:30	742	0	No	No
13:45 to 14:45	720	0	No	No
14:00 to 15:00	687	0	No	No
14:15 to 15:15	710	0	No	No

14:30 to 15:30	761	0	No	No
14:45 to 15:45	880	0	No	No
15:00 to 16:00	939	0	No	No
15:15 to 16:15	995	0	No	No
15:30 to 16:30	966	0	No	No
15:45 to 16:45	892	0	No	No
16:00 to 17:00	895	0	No	No
16:15 to 17:15	911	0	No	No
16:30 to 17:30	944	0	No	No
16:45 to 17:45	1,000	0	No	No
17:00 to 18:00	1,033	0	No*	No*
17:15 to 18:15	1,023	0	No	No
17:30 to 18:30	1,005	0	No	No
17:45 to 18:45	990	0	No	No
18:00 to 19:00	964	0	No	No
18:15 to 19:15	943	0	No	No
18:30 to 19:30	934	0	No	No
18:45 to 19:45	866	0	No	No
19:00 to 20:00	798	0	No	No
19:15 to 20:15	711	0	No	No
19:30 to 20:30	645	0	No	No
19:45 to 20:45	589	0	No	No
20:00 to 21:00	529	0	No	No
20:15 to 21:15	513	0	No	No
20:30 to 21:30	486	0	No	No
20:45 to 21:45	471	0	No	No
21:00 to 22:00	450	0	No	No
21:15 to 22:15	415	0	No	No
21:30 to 22:30	409	0	No	No
21:45 to 22:45	369	0	No	No
22:00 to 23:00	346	0	No	No
22:15 to 23:15	307	0	No	No
22:30 to 23:30	247	0	No	No
22:45 to 23:45	220	0	No	No
23:00 to 00:00	182	0	No	No
23:15 to 00:15	150	0	No	No
23:30 to 00:30	120	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 0 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street	Minor Street	
							Veh Vol > 210	Avg(Veh + Ped + Bicycle) > 200	Delay > 30

Warrants Summary Report

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	0 Hours met (8 required)
Condition A and B Met?	No	0 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	0 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **No** 0 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%

Condition B Met? **No** 0 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	82	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	98	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	96	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	70	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		62	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		52	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		45	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		70	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		68	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		63	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		52	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		27	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		27	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		34	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		50	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		63	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		95	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		109	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		103	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		101	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		84	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		90	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		112	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		160	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		234	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		259	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		292	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		311	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		307	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		352	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		410	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		497	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		615	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		761	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

08:30 to 09:30		816	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

08:45 to 09:45		819	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:00 to 10:00		793	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:15 to 10:15		746	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:30 to 10:30		785	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:45 to 10:45		845	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

10:00 to 11:00	908	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

10:15 to 11:15	912	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

10:30 to 11:30	920	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

10:45 to 11:45	906	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:00 to 12:00	915	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:15 to 12:15	971	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:30 to 12:30		1,031	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
11:45 to 12:45		1,046	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
12:00 to 13:00		1,045	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
12:15 to 13:15		1,077	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
12:30 to 13:30		1,086	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
12:45 to 13:45		1,107	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:00 to 14:00		1,143	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:15 to 14:15		1,066	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:30 to 14:30		1,050	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:45 to 14:45		1,045	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:00 to 15:00		1,001	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:15 to 15:15		1,075	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:30 to 15:30		1,126	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:45 to 15:45		1,203	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:00 to 16:00		1,250	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:15 to 16:15		1,263	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:30 to 16:30		1,224	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:45 to 16:45		1,181	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

16:00 to 17:00	1,192	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:15 to 17:15	1,243	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:30 to 17:30	1,272	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:45 to 17:45	1,355	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:00 to 18:00	1,389	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:15 to 18:15	1,394	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:30 to 18:30		1,377	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

17:45 to 18:45		1,357	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

18:00 to 19:00		1,335	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

18:15 to 19:15		1,301	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

18:30 to 19:30		1,275	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

18:45 to 19:45		1,190	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

19:00 to 20:00		1,125	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
19:15 to 20:15		1,019	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
19:30 to 20:30		937	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
19:45 to 20:45		859	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
20:00 to 21:00		756	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
20:15 to 21:15		694	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:30 to 21:30		649	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:45 to 21:45		598	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:00 to 22:00		573	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:15 to 22:15		537	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:30 to 22:30		531	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:45 to 22:45		491	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		446	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		400	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		309	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		264	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		221	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		150	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		118	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		101	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

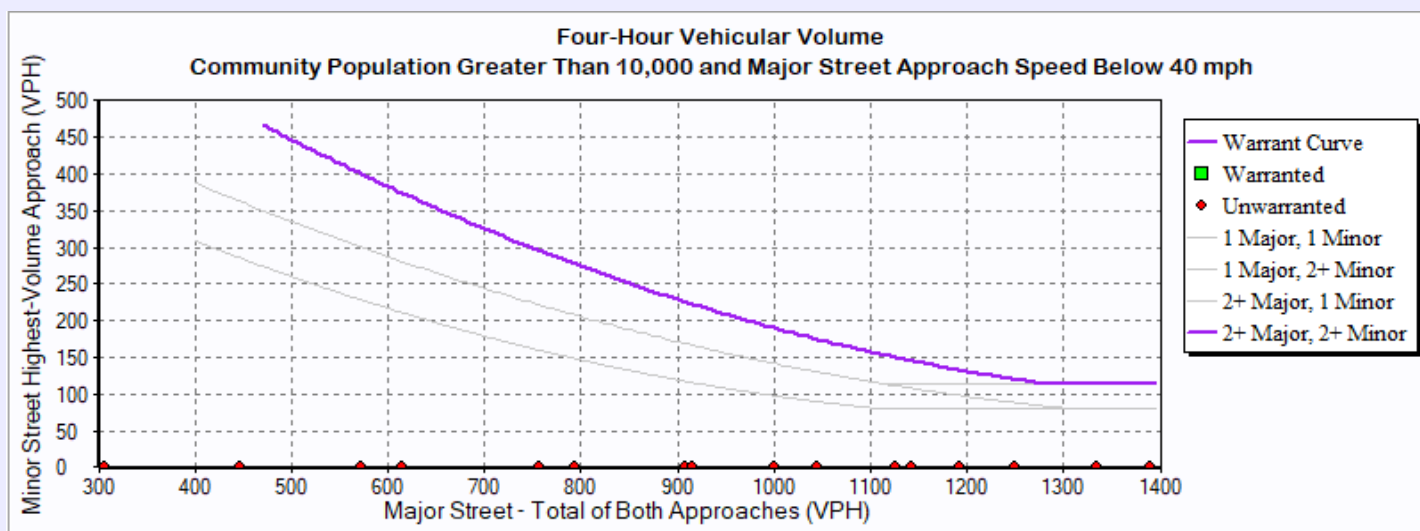
	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **No**

Details:

Notes 0 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	82	0
01:00:00 - 02:00:00	62	0
02:00:00 - 03:00:00	68	0
03:00:00 - 04:00:00	27	0
04:00:00 - 05:00:00	95	0
05:00:00 - 06:00:00	84	0
06:00:00 - 07:00:00	234	0
07:00:00 - 08:00:00	307	0
08:00:00 - 09:00:00	615	0
09:00:00 - 10:00:00	793	0
10:00:00 - 11:00:00	908	0
11:00:00 - 12:00:00	915	0
12:00:00 - 13:00:00	1045	0
13:00:00 - 14:00:00	1143	0
14:00:00 - 15:00:00	1001	0
15:00:00 - 16:00:00	1250	0
16:00:00 - 17:00:00	1192	0
17:00:00 - 18:00:00	1389	0
18:00:00 - 19:00:00	1335	0
19:00:00 - 20:00:00	1125	0
20:00:00 - 21:00:00	756	0
21:00:00 - 22:00:00	573	0
22:00:00 - 23:00:00	446	0
23:00:00 - 00:00:00	221	0

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)

Warrant 3: Peak Hour

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

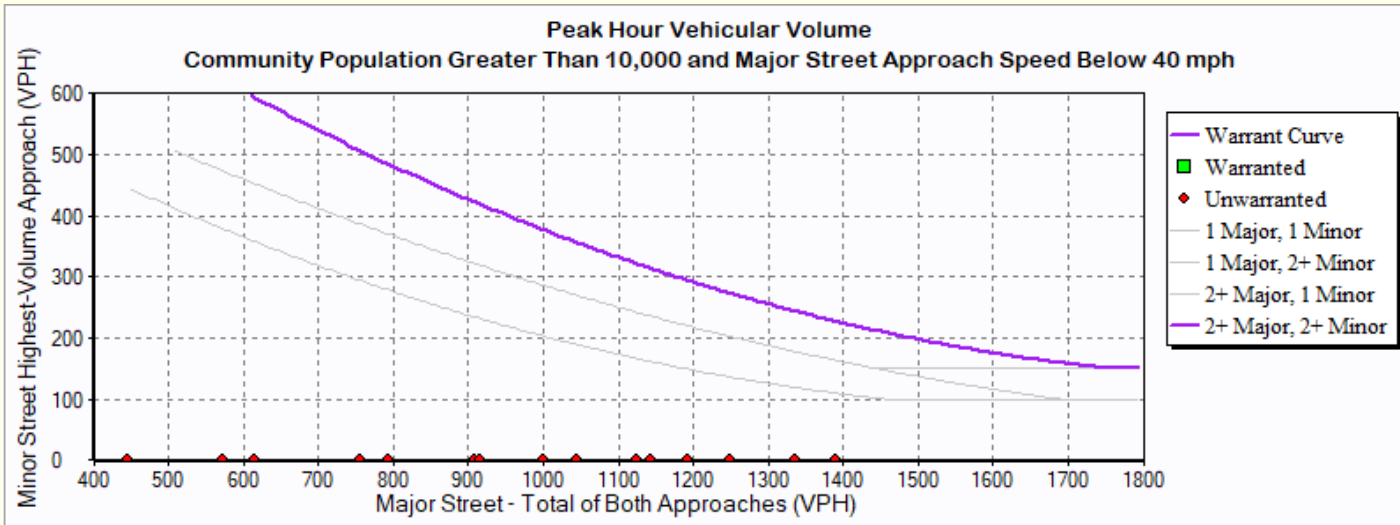
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	82	0
1:00	62	0
2:00	68	0
3:00	27	0
4:00	95	0
5:00	84	0

6:00	234	0
7:00	307	0
8:00	615	0
9:00	793	0
10:00	908	0
11:00	915	0
12:00	1,045	0
13:00	1,143	0
14:00	1,001	0
15:00	1,250	0
16:00	1,192	0
17:00	1,389	0
18:00	1,335	0
19:00	1,125	0
20:00	756	0
21:00	573	0
22:00	446	0
23:00	221	0

Warrant 4: Pedestrian Volume

4: Spreckels Ave & Dupont Ct

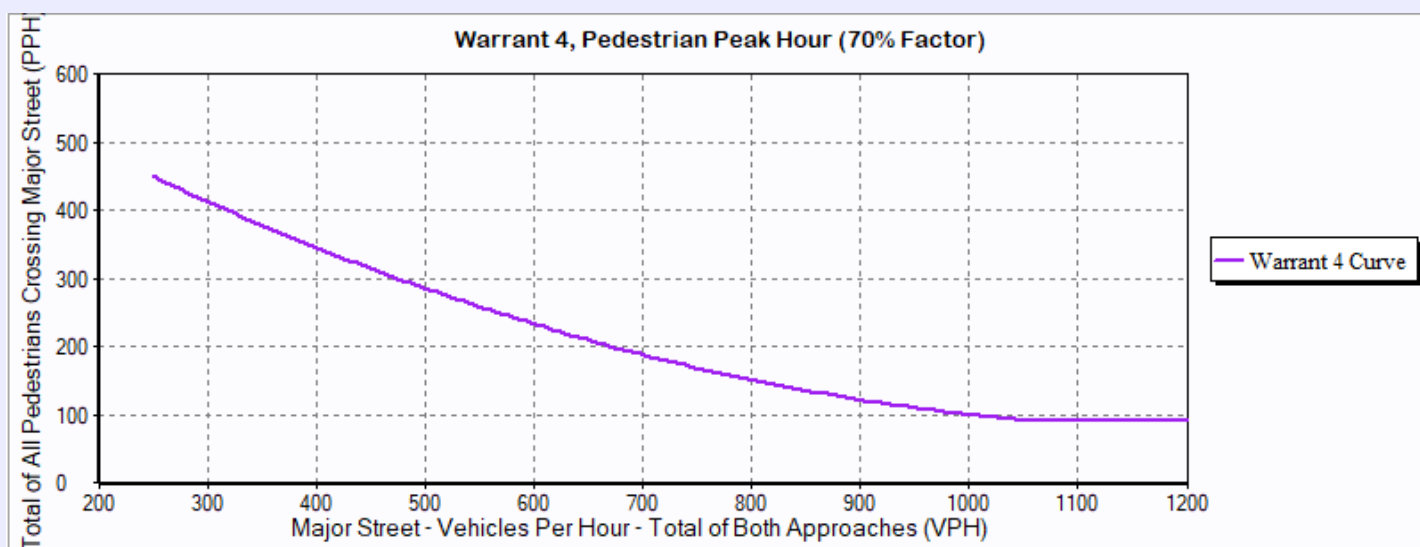
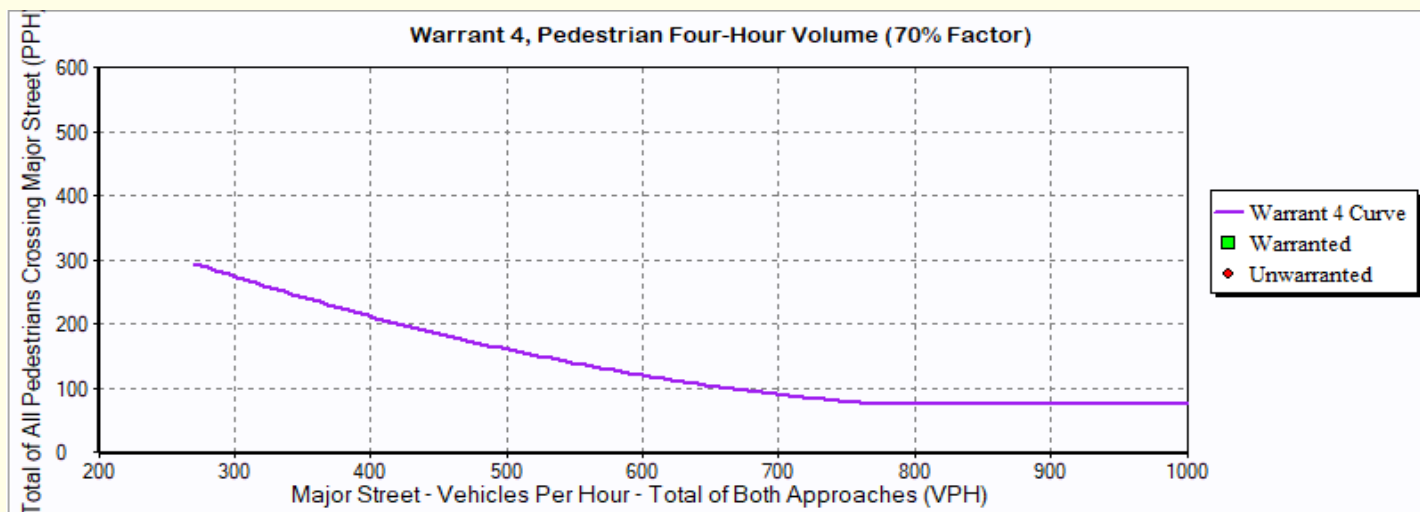
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Dupont Ct)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	No
Major Street Speed Limit	40		0 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
Qualifying Crashes		0	
Adequate Alternative Trials?		No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	82	0	No	No	0	No	0	No
00:15 to 01:15	98	0	No	No	0	No	0	No
00:30 to 01:30	96	0	No	No	0	No	0	No
00:45 to 01:45	70	0	No	No	0	No	0	No
01:00 to 02:00	62	0	No	No	0	No	0	No
01:15 to 02:15	52	0	No	No	0	No	0	No
01:30 to 02:30	45	0	No	No	0	No	0	No
01:45 to 02:45	70	0	No	No	0	No	0	No

02:00 to 03:00	68	0	No	No	0	No	0	No
02:15 to 03:15	63	0	No	No	0	No	0	No
02:30 to 03:30	52	0	No	No	0	No	0	No
02:45 to 03:45	27	0	No	No	0	No	0	No
03:00 to 04:00	27	0	No	No	0	No	0	No
03:15 to 04:15	34	0	No	No	0	No	0	No
03:30 to 04:30	50	0	No	No	0	No	0	No
03:45 to 04:45	63	0	No	No	0	No	0	No
04:00 to 05:00	95	0	No	No	0	No	0	No
04:15 to 05:15	109	0	No	No	0	No	0	No
04:30 to 05:30	103	0	No	No	0	No	0	No
04:45 to 05:45	101	0	No	No	0	No	0	No
05:00 to 06:00	84	0	No	No	0	No	0	No
05:15 to 06:15	90	0	No	No	0	No	0	No
05:30 to 06:30	112	0	No	No	0	No	0	No
05:45 to 06:45	160	0	No	No	0	No	0	No
06:00 to 07:00	234	0	No	No	0	No	0	No
06:15 to 07:15	259	0	No	No	0	No	0	No

06:30 to 07:30	292	0	No	No	0	No	0	No
06:45 to 07:45	311	0	No	No	0	No	0	No
07:00 to 08:00	307	0	No	No	0	No	0	No
07:15 to 08:15	352	0	No	No	0	No	0	No
07:30 to 08:30	410	0	No	No	0	No	0	No
07:45 to 08:45	497	0	No	No	0	No	0	No
08:00 to 09:00	615	0	No	No	0	No	0	No
08:15 to 09:15	761	0	No	No	0	No	0	No
08:30 to 09:30	816	0	No	No	0	No	0	No
08:45 to 09:45	819	0	No	No	0	No	0	No
09:00 to 10:00	793	0	No	No	0	No	0	No
09:15 to 10:15	746	0	No	No	0	No	0	No
09:30 to 10:30	785	0	No	No	0	No	0	No
09:45 to 10:45	845	0	No	No	0	No	0	No
10:00 to 11:00	908	0	No	No	0	No	0	No
10:15 to 11:15	912	0	No	No	0	No	0	No
10:30 to 11:30	920	0	No	No	0	No	0	No
10:45 to 11:45	906	0	No	No	0	No	0	No

11:00 to 12:00	915	0	No	No	0	No	0	No
11:15 to 12:15	971	0	No	No	0	No	0	No
11:30 to 12:30	1,031	0	No	No	0	No	0	No
11:45 to 12:45	1,046	0	No	No	0	No	0	No
12:00 to 13:00	1,045	0	No	No	0	No	0	No
12:15 to 13:15	1,077	0	No	No	0	No	0	No
12:30 to 13:30	1,086	0	No	No	0	No	0	No
12:45 to 13:45	1,107	0	No	No	0	No	0	No
13:00 to 14:00	1,143	0	No	No	0	No	0	No
13:15 to 14:15	1,066	0	No	No	0	No	0	No
13:30 to 14:30	1,050	0	No	No	0	No	0	No
13:45 to 14:45	1,045	0	No	No	0	No	0	No
14:00 to 15:00	1,001	0	No	No	0	No	0	No
14:15 to 15:15	1,075	0	No	No	0	No	0	No
14:30 to 15:30	1,126	0	No	No	0	No	0	No
14:45 to 15:45	1,203	0	No	No	0	No	0	No
15:00 to 16:00	1,250	0	No	No	0	No	0	No
15:15 to 16:15	1,263	0	No	No	0	No	0	No

15:30 to 16:30	1,224	0	No	No	0	No	0	No
15:45 to 16:45	1,181	0	No	No	0	No	0	No
16:00 to 17:00	1,192	0	No	No	0	No	0	No
16:15 to 17:15	1,243	0	No	No	0	No	0	No
16:30 to 17:30	1,272	0	No	No	0	No	0	No
16:45 to 17:45	1,355	0	No	No	0	No	0	No
17:00 to 18:00	1,389	0	No	No	0	No	0	No
17:15 to 18:15	1,394	0	No	No	0	No	0	No
17:30 to 18:30	1,377	0	No	No	0	No	0	No
17:45 to 18:45	1,357	0	No	No	0	No	0	No
18:00 to 19:00	1,335	0	No	No	0	No	0	No
18:15 to 19:15	1,301	0	No	No	0	No	0	No
18:30 to 19:30	1,275	0	No	No	0	No	0	No
18:45 to 19:45	1,190	0	No	No	0	No	0	No
19:00 to 20:00	1,125	0	No	No	0	No	0	No
19:15 to 20:15	1,019	0	No	No	0	No	0	No
19:30 to 20:30	937	0	No	No	0	No	0	No
19:45 to 20:45	859	0	No	No	0	No	0	No

20:00 to 21:00	756	0	No	No	0	No	0	No
20:15 to 21:15	694	0	No	No	0	No	0	No
20:30 to 21:30	649	0	No	No	0	No	0	No
20:45 to 21:45	598	0	No	No	0	No	0	No
21:00 to 22:00	573	0	No	No	0	No	0	No
21:15 to 22:15	537	0	No	No	0	No	0	No
21:30 to 22:30	531	0	No	No	0	No	0	No
21:45 to 22:45	491	0	No	No	0	No	0	No
22:00 to 23:00	446	0	No	No	0	No	0	No
22:15 to 23:15	400	0	No	No	0	No	0	No
22:30 to 23:30	309	0	No	No	0	No	0	No
22:45 to 23:45	264	0	No	No	0	No	0	No
23:00 to 00:00	221	0	No	No	0	No	0	No
23:15 to 00:15	150	0	No	No	0	No	0	No
23:30 to 00:30	118	0	No	No	0	No	0	No
23:45 to 00:45	101	0	No	No	0	No	0	No

Warrant 8: Roadway Network

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,394	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,394	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

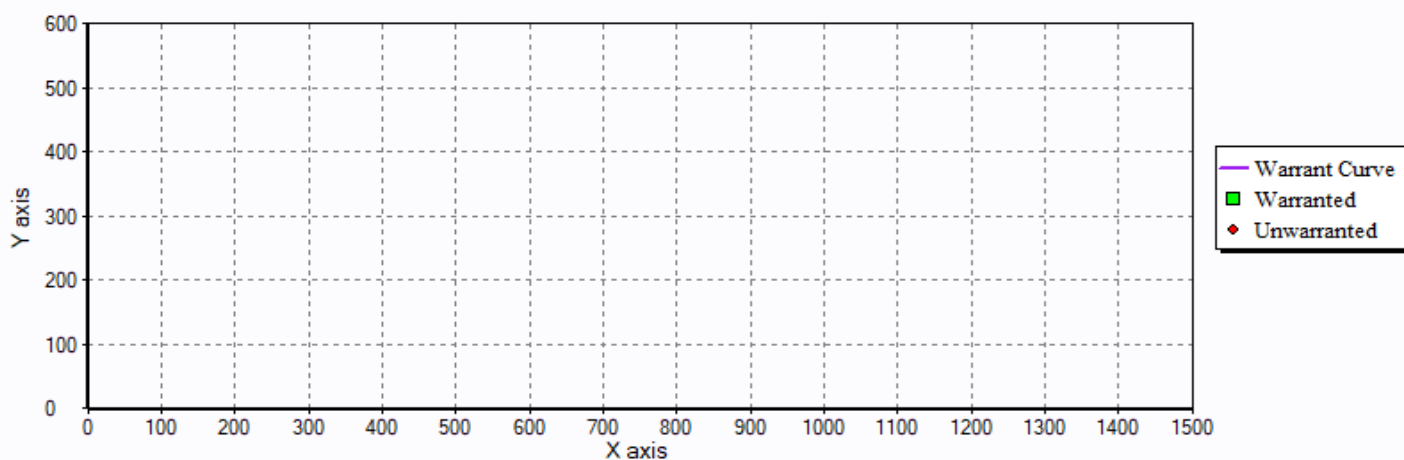
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	82	0	No	No
00:15 to 01:15	98	0	No	No
00:30 to 01:30	96	0	No	No
00:45 to 01:45	70	0	No	No
01:00 to 02:00	62	0	No	No
01:15 to 02:15	52	0	No	No
01:30 to 02:30	45	0	No	No
01:45 to 02:45	70	0	No	No
02:00 to 03:00	68	0	No	No
02:15 to 03:15	63	0	No	No
02:30 to 03:30	52	0	No	No
02:45 to 03:45	27	0	No	No
03:00 to 04:00	27	0	No	No
03:15 to 04:15	34	0	No	No
03:30 to 04:30	50	0	No	No
03:45 to 04:45	63	0	No	No
04:00 to 05:00	95	0	No	No
04:15 to 05:15	109	0	No	No
04:30 to 05:30	103	0	No	No
04:45 to 05:45	101	0	No	No
05:00 to 06:00	84	0	No	No

05:15 to 06:15	90	0	No	No
05:30 to 06:30	112	0	No	No
05:45 to 06:45	160	0	No	No
06:00 to 07:00	234	0	No	No
06:15 to 07:15	259	0	No	No
06:30 to 07:30	292	0	No	No
06:45 to 07:45	311	0	No	No
07:00 to 08:00	307	0	No	No
07:15 to 08:15	352	0	No	No
07:30 to 08:30	410	0	No	No
07:45 to 08:45	497	0	No	No
08:00 to 09:00	615	0	No	No
08:15 to 09:15	761	0	No	No
08:30 to 09:30	816	0	No	No
08:45 to 09:45	819	0	No	No
09:00 to 10:00	793	0	No	No
09:15 to 10:15	746	0	No	No
09:30 to 10:30	785	0	No	No
09:45 to 10:45	845	0	No	No
10:00 to 11:00	908	0	No	No
10:15 to 11:15	912	0	No	No
10:30 to 11:30	920	0	No	No
10:45 to 11:45	906	0	No	No
11:00 to 12:00	915	0	No	No
11:15 to 12:15	971	0	No	No
11:30 to 12:30	1,031	0	No	No
11:45 to 12:45	1,046	0	No	No
12:00 to 13:00	1,045	0	No	No
12:15 to 13:15	1,077	0	No	No
12:30 to 13:30	1,086	0	No	No
12:45 to 13:45	1,107	0	No	No
13:00 to 14:00	1,143	0	No	No
13:15 to 14:15	1,066	0	No	No
13:30 to 14:30	1,050	0	No	No
13:45 to 14:45	1,045	0	No	No
14:00 to 15:00	1,001	0	No	No
14:15 to 15:15	1,075	0	No	No

14:30 to 15:30	1,126	0	No	No
14:45 to 15:45	1,203	0	No	No
15:00 to 16:00	1,250	0	No	No
15:15 to 16:15	1,263	0	No	No
15:30 to 16:30	1,224	0	No	No
15:45 to 16:45	1,181	0	No	No
16:00 to 17:00	1,192	0	No	No
16:15 to 17:15	1,243	0	No	No
16:30 to 17:30	1,272	0	No	No
16:45 to 17:45	1,355	0	No	No
17:00 to 18:00	1,389	0	No	No
17:15 to 18:15	1,394	0	No*	No*
17:30 to 18:30	1,377	0	No	No
17:45 to 18:45	1,357	0	No	No
18:00 to 19:00	1,335	0	No	No
18:15 to 19:15	1,301	0	No	No
18:30 to 19:30	1,275	0	No	No
18:45 to 19:45	1,190	0	No	No
19:00 to 20:00	1,125	0	No	No
19:15 to 20:15	1,019	0	No	No
19:30 to 20:30	937	0	No	No
19:45 to 20:45	859	0	No	No
20:00 to 21:00	756	0	No	No
20:15 to 21:15	694	0	No	No
20:30 to 21:30	649	0	No	No
20:45 to 21:45	598	0	No	No
21:00 to 22:00	573	0	No	No
21:15 to 22:15	537	0	No	No
21:30 to 22:30	531	0	No	No
21:45 to 22:45	491	0	No	No
22:00 to 23:00	446	0	No	No
22:15 to 23:15	400	0	No	No
22:30 to 23:30	309	0	No	No
22:45 to 23:45	264	0	No	No
23:00 to 00:00	221	0	No	No
23:15 to 00:15	150	0	No	No
23:30 to 00:30	118	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 0 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street	Minor Street	
							Veh Vol > 210	Avg(Veh + Ped + Bicycle) > 200	Delay > 30

Warrants Summary Report

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	0 Hours met (8 required)
Condition A and B Met?	No	0 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	0 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **No** 0 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave
Major Street Direction: NB/SB
Minor Street Direction: WB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%
Condition B Met? **No** 0 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	90	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	83	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	87	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	74	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		57	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		50	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		53	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		94	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		96	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		90	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		68	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		27	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		23	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		33	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		54	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		75	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		131	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		142	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		133	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		134	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		102	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		108	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		131	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		180	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		255	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		275	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		296	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		290	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		259	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:15 to 08:15		291	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:30 to 08:30		329	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:45 to 08:45		395	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:00 to 09:00		489	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:15 to 09:15		563	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:30 to 09:30		599	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

08:45 to 09:45		590	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:00 to 10:00		549	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:15 to 10:15		537	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:30 to 10:30		564	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

09:45 to 10:45		582	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

10:00 to 11:00	615	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

10:15 to 11:15	603	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

10:30 to 11:30	610	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

10:45 to 11:45	619	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:00 to 12:00	634	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:15 to 12:15	674	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:30 to 12:30	706	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

11:45 to 12:45	721	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:00 to 13:00	737	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:15 to 13:15	762	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:30 to 13:30	769	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:45 to 13:45	787	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

13:00 to 14:00		798	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:15 to 14:15		769	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:30 to 14:30		742	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:45 to 14:45		720	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:00 to 15:00		687	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

14:15 to 15:15		710	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

14:30 to 15:30		761	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
14:45 to 15:45		880	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:00 to 16:00		939	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:15 to 16:15		995	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:30 to 16:30		966	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
15:45 to 16:45		892	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

16:00 to 17:00	895	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:15 to 17:15	911	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:30 to 17:30	944	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:45 to 17:45	1,000	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:00 to 18:00	1,033	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:15 to 18:15	1,023	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:30 to 18:30		1,005	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
17:45 to 18:45		990	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:00 to 19:00		964	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:15 to 19:15		943	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:30 to 19:30		934	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
18:45 to 19:45		866	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

19:00 to 20:00		798	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

19:15 to 20:15		711	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

19:30 to 20:30		645	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

19:45 to 20:45		589	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:00 to 21:00		529	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:15 to 21:15		513	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:30 to 21:30		486	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
20:45 to 21:45		471	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:00 to 22:00		450	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:15 to 22:15		415	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:30 to 22:30		409	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
21:45 to 22:45		369	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		346	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		307	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		247	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		220	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		182	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		150	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		120	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		93	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

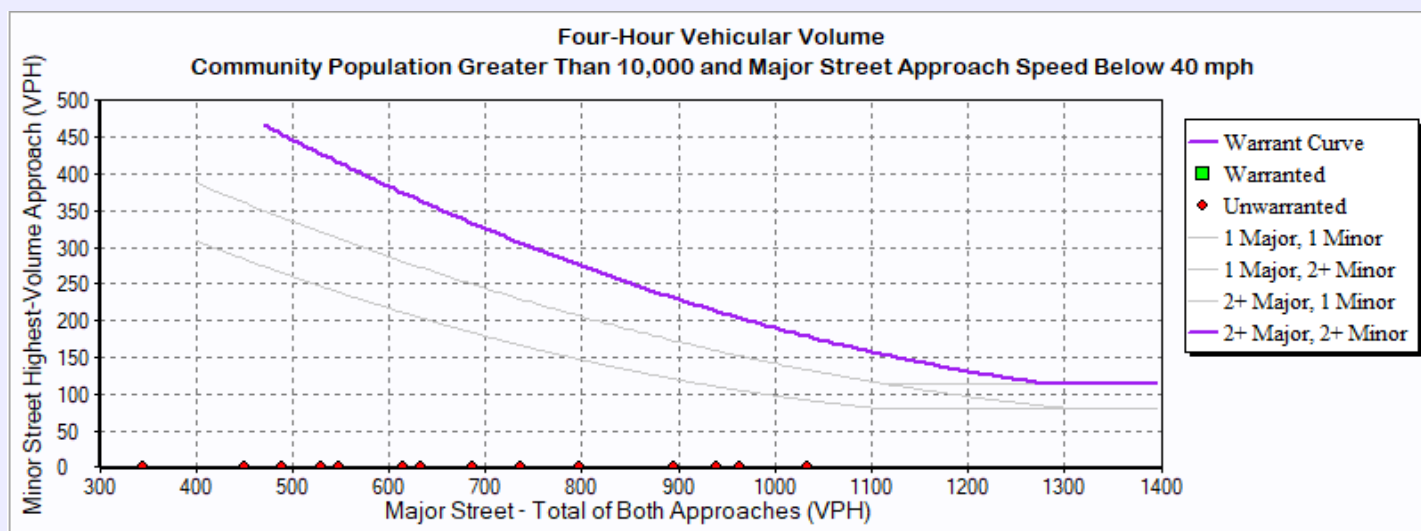
	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **No**

Details:

Notes 0 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	90	0
01:00:00 - 02:00:00	57	0
02:00:00 - 03:00:00	96	0
03:00:00 - 04:00:00	23	0
04:00:00 - 05:00:00	131	0
05:00:00 - 06:00:00	102	0
06:00:00 - 07:00:00	255	0
07:00:00 - 08:00:00	259	0
08:00:00 - 09:00:00	489	0
09:00:00 - 10:00:00	549	0
10:00:00 - 11:00:00	615	0
11:00:00 - 12:00:00	634	0
12:00:00 - 13:00:00	737	0
13:00:00 - 14:00:00	798	0
14:00:00 - 15:00:00	687	0
15:00:00 - 16:00:00	939	0
16:00:00 - 17:00:00	895	0
17:00:00 - 18:00:00	1033	0
18:00:00 - 19:00:00	964	0
19:00:00 - 20:00:00	798	0
20:00:00 - 21:00:00	529	0
21:00:00 - 22:00:00	450	0
22:00:00 - 23:00:00	346	0
23:00:00 - 00:00:00	182	0

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)

Warrant 3: Peak Hour

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population? **No**

Condition A Met? **No**

Condition B Met? **No**

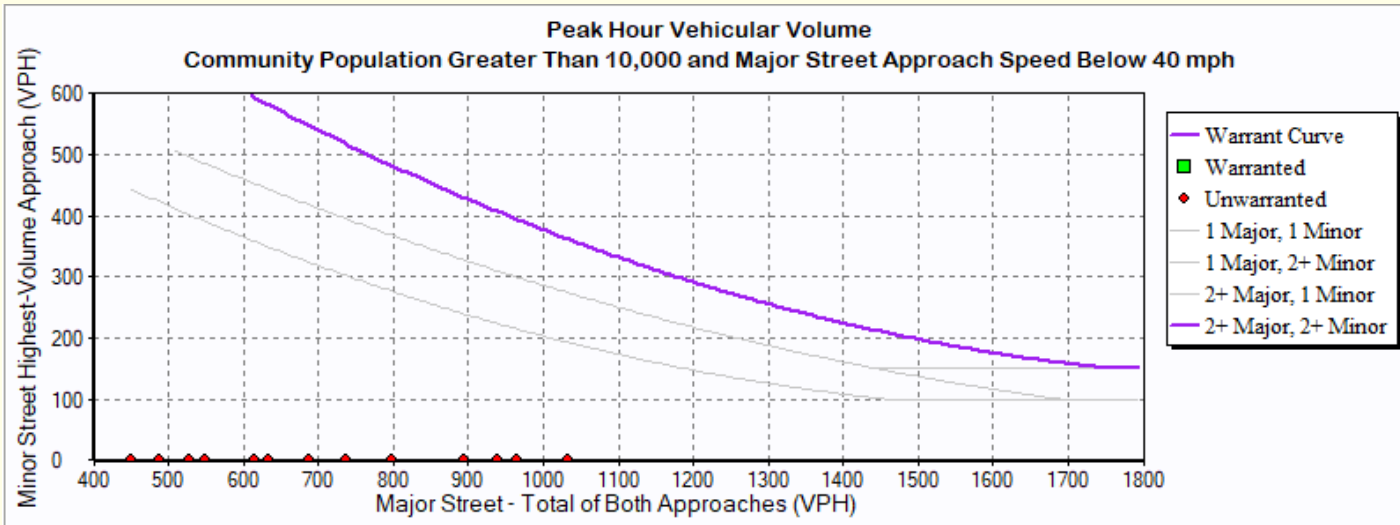
Notes 0 Hours met (1 required)

Notes 0 Hours met (1 required)

Minor Approach Time Delay Condition Met? **Not Met**

Minor Approach Volume Condition Met? **Met**

Total Entering Intersection Volume Condition Met? **Not Met**



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	90	0
1:00	57	0
2:00	96	0
3:00	23	0
4:00	131	0
5:00	102	0

6:00	255	0
7:00	259	0
8:00	489	0
9:00	549	0
10:00	615	0
11:00	634	0
12:00	737	0
13:00	798	0
14:00	687	0
15:00	939	0
16:00	895	0
17:00	1,033	0
18:00	964	0
19:00	798	0
20:00	529	0
21:00	450	0
22:00	346	0
23:00	182	0

Warrant 4: Pedestrian Volume

4: Spreckels Ave & Dupont Ct

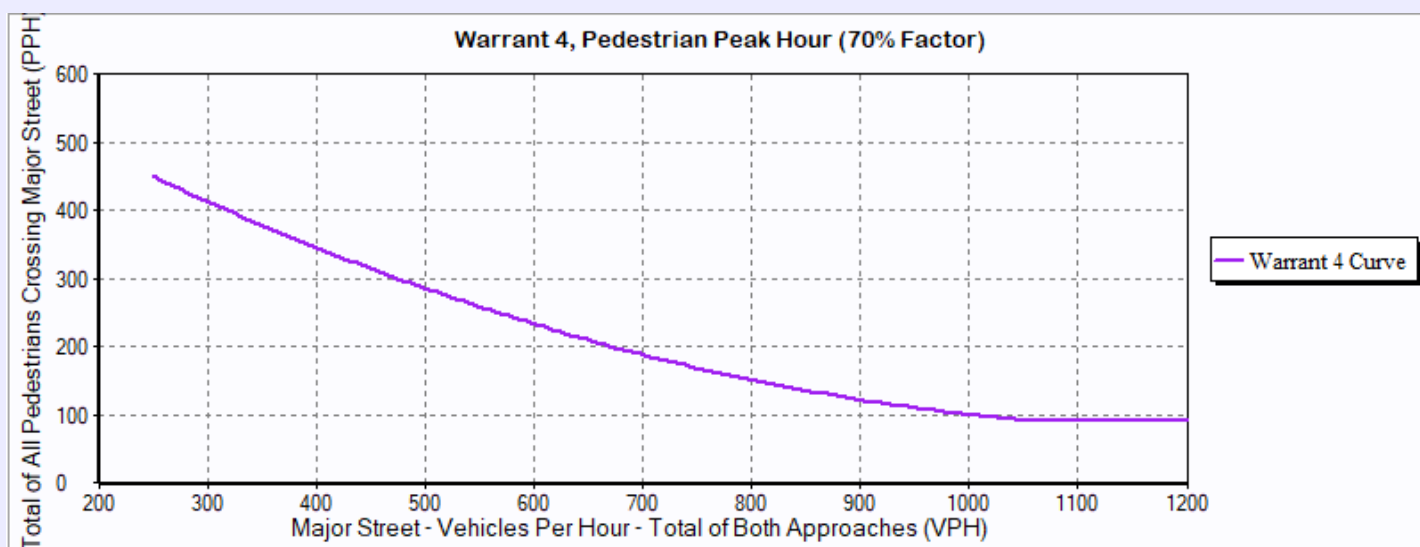
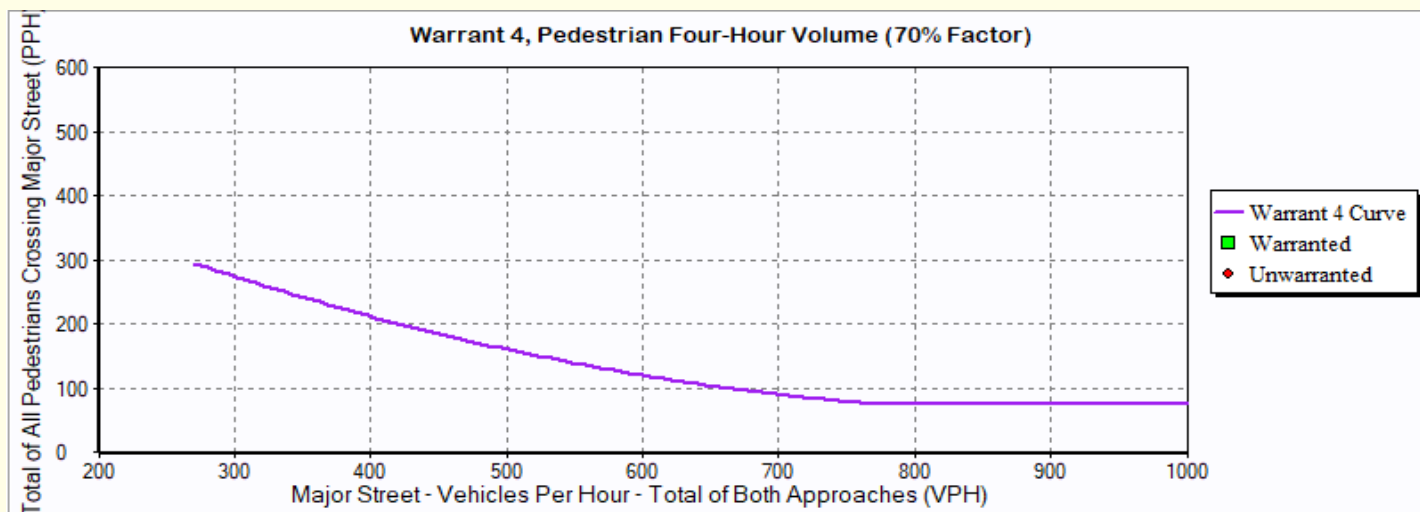
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Dupont Ct)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	No
Major Street Speed Limit	40		0 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
Qualifying Crashes		0	
Adequate Alternative Trials?		No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		
00:00 to 01:00	90	0	No	No	0	No	0	No
00:15 to 01:15	83	0	No	No	0	No	0	No
00:30 to 01:30	87	0	No	No	0	No	0	No
00:45 to 01:45	74	0	No	No	0	No	0	No
01:00 to 02:00	57	0	No	No	0	No	0	No
01:15 to 02:15	50	0	No	No	0	No	0	No
01:30 to 02:30	53	0	No	No	0	No	0	No
01:45 to 02:45	94	0	No	No	0	No	0	No

02:00 to 03:00	96	0	No	No	0	No	0	No
02:15 to 03:15	90	0	No	No	0	No	0	No
02:30 to 03:30	68	0	No	No	0	No	0	No
02:45 to 03:45	27	0	No	No	0	No	0	No
03:00 to 04:00	23	0	No	No	0	No	0	No
03:15 to 04:15	33	0	No	No	0	No	0	No
03:30 to 04:30	54	0	No	No	0	No	0	No
03:45 to 04:45	75	0	No	No	0	No	0	No
04:00 to 05:00	131	0	No	No	0	No	0	No
04:15 to 05:15	142	0	No	No	0	No	0	No
04:30 to 05:30	133	0	No	No	0	No	0	No
04:45 to 05:45	134	0	No	No	0	No	0	No
05:00 to 06:00	102	0	No	No	0	No	0	No
05:15 to 06:15	108	0	No	No	0	No	0	No
05:30 to 06:30	131	0	No	No	0	No	0	No
05:45 to 06:45	180	0	No	No	0	No	0	No
06:00 to 07:00	255	0	No	No	0	No	0	No
06:15 to 07:15	275	0	No	No	0	No	0	No

06:30 to 07:30	296	0	No	No	0	No	0	No
06:45 to 07:45	290	0	No	No	0	No	0	No
07:00 to 08:00	259	0	No	No	0	No	0	No
07:15 to 08:15	291	0	No	No	0	No	0	No
07:30 to 08:30	329	0	No	No	0	No	0	No
07:45 to 08:45	395	0	No	No	0	No	0	No
08:00 to 09:00	489	0	No	No	0	No	0	No
08:15 to 09:15	563	0	No	No	0	No	0	No
08:30 to 09:30	599	0	No	No	0	No	0	No
08:45 to 09:45	590	0	No	No	0	No	0	No
09:00 to 10:00	549	0	No	No	0	No	0	No
09:15 to 10:15	537	0	No	No	0	No	0	No
09:30 to 10:30	564	0	No	No	0	No	0	No
09:45 to 10:45	582	0	No	No	0	No	0	No
10:00 to 11:00	615	0	No	No	0	No	0	No
10:15 to 11:15	603	0	No	No	0	No	0	No
10:30 to 11:30	610	0	No	No	0	No	0	No
10:45 to 11:45	619	0	No	No	0	No	0	No

11:00 to 12:00	634	0	No	No	0	No	0	No
11:15 to 12:15	674	0	No	No	0	No	0	No
11:30 to 12:30	706	0	No	No	0	No	0	No
11:45 to 12:45	721	0	No	No	0	No	0	No
12:00 to 13:00	737	0	No	No	0	No	0	No
12:15 to 13:15	762	0	No	No	0	No	0	No
12:30 to 13:30	769	0	No	No	0	No	0	No
12:45 to 13:45	787	0	No	No	0	No	0	No
13:00 to 14:00	798	0	No	No	0	No	0	No
13:15 to 14:15	769	0	No	No	0	No	0	No
13:30 to 14:30	742	0	No	No	0	No	0	No
13:45 to 14:45	720	0	No	No	0	No	0	No
14:00 to 15:00	687	0	No	No	0	No	0	No
14:15 to 15:15	710	0	No	No	0	No	0	No
14:30 to 15:30	761	0	No	No	0	No	0	No
14:45 to 15:45	880	0	No	No	0	No	0	No
15:00 to 16:00	939	0	No	No	0	No	0	No
15:15 to 16:15	995	0	No	No	0	No	0	No

15:30 to 16:30	966	0	No	No	0	No	0	No
15:45 to 16:45	892	0	No	No	0	No	0	No
16:00 to 17:00	895	0	No	No	0	No	0	No
16:15 to 17:15	911	0	No	No	0	No	0	No
16:30 to 17:30	944	0	No	No	0	No	0	No
16:45 to 17:45	1,000	0	No	No	0	No	0	No
17:00 to 18:00	1,033	0	No	No	0	No	0	No
17:15 to 18:15	1,023	0	No	No	0	No	0	No
17:30 to 18:30	1,005	0	No	No	0	No	0	No
17:45 to 18:45	990	0	No	No	0	No	0	No
18:00 to 19:00	964	0	No	No	0	No	0	No
18:15 to 19:15	943	0	No	No	0	No	0	No
18:30 to 19:30	934	0	No	No	0	No	0	No
18:45 to 19:45	866	0	No	No	0	No	0	No
19:00 to 20:00	798	0	No	No	0	No	0	No
19:15 to 20:15	711	0	No	No	0	No	0	No
19:30 to 20:30	645	0	No	No	0	No	0	No
19:45 to 20:45	589	0	No	No	0	No	0	No

20:00 to 21:00	529	0	No	No	0	No	0	No
20:15 to 21:15	513	0	No	No	0	No	0	No
20:30 to 21:30	486	0	No	No	0	No	0	No
20:45 to 21:45	471	0	No	No	0	No	0	No
21:00 to 22:00	450	0	No	No	0	No	0	No
21:15 to 22:15	415	0	No	No	0	No	0	No
21:30 to 22:30	409	0	No	No	0	No	0	No
21:45 to 22:45	369	0	No	No	0	No	0	No
22:00 to 23:00	346	0	No	No	0	No	0	No
22:15 to 23:15	307	0	No	No	0	No	0	No
22:30 to 23:30	247	0	No	No	0	No	0	No
22:45 to 23:45	220	0	No	No	0	No	0	No
23:00 to 00:00	182	0	No	No	0	No	0	No
23:15 to 00:15	150	0	No	No	0	No	0	No
23:30 to 00:30	120	0	No	No	0	No	0	No
23:45 to 00:45	93	0	No	No	0	No	0	No

Warrant 8: Roadway Network

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name	Spreckels Ave
Major Street Direction	NB/SB
Minor Street Direction	WB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,033	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,033	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

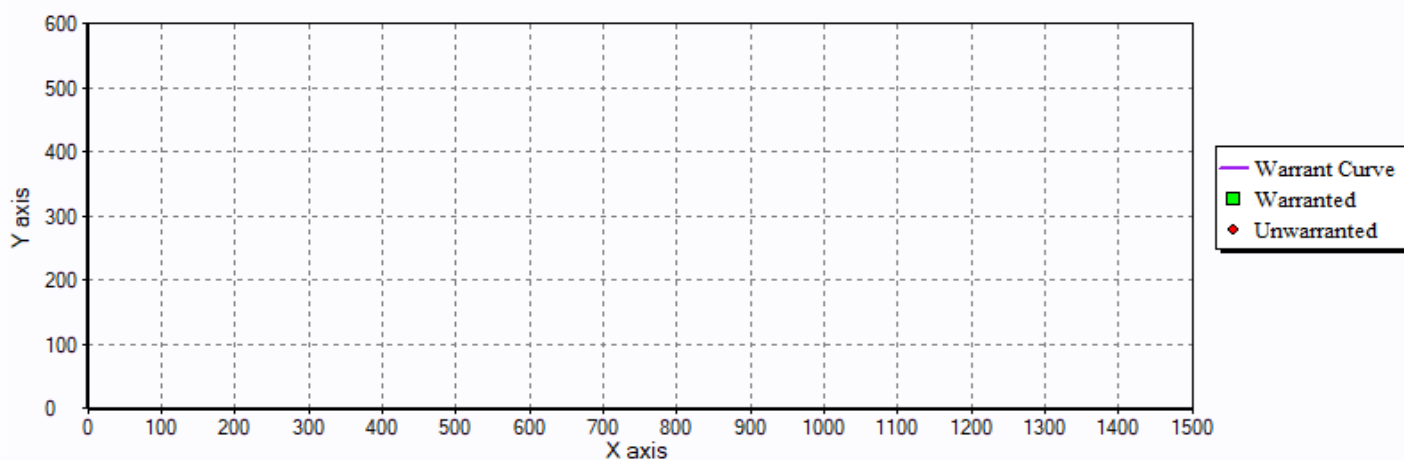
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	90	0	No	No
00:15 to 01:15	83	0	No	No
00:30 to 01:30	87	0	No	No
00:45 to 01:45	74	0	No	No
01:00 to 02:00	57	0	No	No
01:15 to 02:15	50	0	No	No
01:30 to 02:30	53	0	No	No
01:45 to 02:45	94	0	No	No
02:00 to 03:00	96	0	No	No
02:15 to 03:15	90	0	No	No
02:30 to 03:30	68	0	No	No
02:45 to 03:45	27	0	No	No
03:00 to 04:00	23	0	No	No
03:15 to 04:15	33	0	No	No
03:30 to 04:30	54	0	No	No
03:45 to 04:45	75	0	No	No
04:00 to 05:00	131	0	No	No
04:15 to 05:15	142	0	No	No
04:30 to 05:30	133	0	No	No
04:45 to 05:45	134	0	No	No
05:00 to 06:00	102	0	No	No

05:15 to 06:15	108	0	No	No
05:30 to 06:30	131	0	No	No
05:45 to 06:45	180	0	No	No
06:00 to 07:00	255	0	No	No
06:15 to 07:15	275	0	No	No
06:30 to 07:30	296	0	No	No
06:45 to 07:45	290	0	No	No
07:00 to 08:00	259	0	No	No
07:15 to 08:15	291	0	No	No
07:30 to 08:30	329	0	No	No
07:45 to 08:45	395	0	No	No
08:00 to 09:00	489	0	No	No
08:15 to 09:15	563	0	No	No
08:30 to 09:30	599	0	No	No
08:45 to 09:45	590	0	No	No
09:00 to 10:00	549	0	No	No
09:15 to 10:15	537	0	No	No
09:30 to 10:30	564	0	No	No
09:45 to 10:45	582	0	No	No
10:00 to 11:00	615	0	No	No
10:15 to 11:15	603	0	No	No
10:30 to 11:30	610	0	No	No
10:45 to 11:45	619	0	No	No
11:00 to 12:00	634	0	No	No
11:15 to 12:15	674	0	No	No
11:30 to 12:30	706	0	No	No
11:45 to 12:45	721	0	No	No
12:00 to 13:00	737	0	No	No
12:15 to 13:15	762	0	No	No
12:30 to 13:30	769	0	No	No
12:45 to 13:45	787	0	No	No
13:00 to 14:00	798	0	No	No
13:15 to 14:15	769	0	No	No
13:30 to 14:30	742	0	No	No
13:45 to 14:45	720	0	No	No
14:00 to 15:00	687	0	No	No
14:15 to 15:15	710	0	No	No

14:30 to 15:30	761	0	No	No
14:45 to 15:45	880	0	No	No
15:00 to 16:00	939	0	No	No
15:15 to 16:15	995	0	No	No
15:30 to 16:30	966	0	No	No
15:45 to 16:45	892	0	No	No
16:00 to 17:00	895	0	No	No
16:15 to 17:15	911	0	No	No
16:30 to 17:30	944	0	No	No
16:45 to 17:45	1,000	0	No	No
17:00 to 18:00	1,033	0	No*	No*
17:15 to 18:15	1,023	0	No	No
17:30 to 18:30	1,005	0	No	No
17:45 to 18:45	990	0	No	No
18:00 to 19:00	964	0	No	No
18:15 to 19:15	943	0	No	No
18:30 to 19:30	934	0	No	No
18:45 to 19:45	866	0	No	No
19:00 to 20:00	798	0	No	No
19:15 to 20:15	711	0	No	No
19:30 to 20:30	645	0	No	No
19:45 to 20:45	589	0	No	No
20:00 to 21:00	529	0	No	No
20:15 to 21:15	513	0	No	No
20:30 to 21:30	486	0	No	No
20:45 to 21:45	471	0	No	No
21:00 to 22:00	450	0	No	No
21:15 to 22:15	415	0	No	No
21:30 to 22:30	409	0	No	No
21:45 to 22:45	369	0	No	No
22:00 to 23:00	346	0	No	No
22:15 to 23:15	307	0	No	No
22:30 to 23:30	247	0	No	No
22:45 to 23:45	220	0	No	No
23:00 to 00:00	182	0	No	No
23:15 to 00:15	150	0	No	No
23:30 to 00:30	120	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 0 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street	Minor Street	
							Veh Vol > 210	Avg(Veh + Ped + Bicycle) > 200	Delay > 30

Warrants Summary Report

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant	Met?	Notes
Warrant 1, Eight-Hour Vehicular Volume		
	No	
Condition A or B Met?	No	0 Hours met (8 required)
Condition A and B Met?	No	0 Hours met (8 required)
Warrant 2, Four-Hour Vehicular Volume		
	No	0 Hours met (4 required)
Warrant 3, Peak Hour		
	No	
Condition A Met?	No	0 Hours met (1 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 4, Pedestrian Volume		
	No	
Condition A Met?	No	0 Hours met (4 required)
Condition B Met?	No	0 Hours met (1 required)
Warrant 5, School Crossing		
	No	

Warrant 6, Coordinated Signal System**No****Warrant 7, Crash Experience****No**Traffic Volume Cond.? **No** 0 Hours met (8 required)Ped Condition? **No** 0 Hours met (8 required)**Warrant 8, Roadway Network****No****Warrant 9, Intersection Near a Grade Crossing****No****AWSC Warrant, Multiway Stop Application****No**Condition A Met? **No**Condition B Met? **No**Condition C Met? **No****BicycleWarrant****No**

0 Hours met (1 required)

Warrant 1: Eight-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave
Major Street Direction: NB/SB
Minor Street Direction: WB

WARRANT 1 MET? **No**

Details:

Condition A Met? **No** 0 Hours met (8 required) at 100%
Condition B Met? **No** 0 Hours met (8 required) at 100%

Hour	Major Street Vehicles (Total of Both Approaches)	High Volume Minor Approach Vehicles	100% Standard Met? Cond. A OR Cond. B		80% Standard Met? Cond. A AND Cond. B	
			Condition A 100% Column	Condition B 100% Column	Condition A 80% Column	Condition B 80% Column
00:00 to 01:00	82	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:15 to 01:15	98	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:30 to 01:30	96	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		
00:45 to 01:45	70	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No		

01:00 to 02:00		62	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:15 to 02:15		52	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:30 to 02:30		45	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

01:45 to 02:45		70	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:00 to 03:00		68	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:15 to 03:15		63	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:30 to 03:30		52	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

02:45 to 03:45		27	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:00 to 04:00		27	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:15 to 04:15		34	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:30 to 04:30		50	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

03:45 to 04:45		63	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:00 to 05:00		95	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:15 to 05:15		109	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:30 to 05:30		103	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

04:45 to 05:45		101	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:00 to 06:00		84	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:15 to 06:15		90	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:30 to 06:30		112	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

05:45 to 06:45		160	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:00 to 07:00		234	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:15 to 07:15		259	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:30 to 07:30		292	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

06:45 to 07:45		311	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

07:00 to 08:00		307	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:15 to 08:15		352	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:30 to 08:30		410	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
07:45 to 08:45		497	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:00 to 09:00		615	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
08:15 to 09:15		761	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

08:30 to 09:30		816	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

08:45 to 09:45		819	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:00 to 10:00		793	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:15 to 10:15		746	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:30 to 10:30		785	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

09:45 to 10:45		845	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

10:00 to 11:00	908	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

10:15 to 11:15	912	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

10:30 to 11:30	920	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

10:45 to 11:45	906	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:00 to 12:00	915	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:15 to 12:15	971	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:30 to 12:30	1,031	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

11:45 to 12:45	1,046	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:00 to 13:00	1,045	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:15 to 13:15	1,077	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:30 to 13:30	1,086	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

12:45 to 13:45	1,107	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

13:00 to 14:00		1,143	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:15 to 14:15		1,066	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:30 to 14:30		1,050	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

13:45 to 14:45		1,045	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:00 to 15:00		1,001	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:15 to 15:15		1,075	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:30 to 15:30		1,126	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

14:45 to 15:45		1,203	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:00 to 16:00		1,250	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:15 to 16:15		1,263	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:30 to 16:30		1,224	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

15:45 to 16:45		1,181	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			

16:00 to 17:00	1,192	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:15 to 17:15	1,243	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:30 to 17:30	1,272	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

16:45 to 17:45	1,355	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:00 to 18:00	1,389	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:15 to 18:15	1,394	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:30 to 18:30	1,377	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

17:45 to 18:45	1,357	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

18:00 to 19:00	1,335	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

18:15 to 19:15	1,301	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

18:30 to 19:30	1,275	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

18:45 to 19:45	1,190	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No		
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No		
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No		
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No		

19:00 to 20:00		1,125	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
19:15 to 20:15		1,019	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
19:30 to 20:30		937	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	Yes	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
19:45 to 20:45		859	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
20:00 to 21:00		756	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	Yes	Volume >= 80% column (80)?	No			
20:15 to 21:15		694	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:30 to 21:30		649	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	Yes	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

20:45 to 21:45		598	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:00 to 22:00		573	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:15 to 22:15		537	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:30 to 22:30		531	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

21:45 to 22:45		491	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	Yes	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

22:00 to 23:00		446	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:15 to 23:15		400	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:30 to 23:30		309	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
22:45 to 23:45		264	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:00 to 00:00		221	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			
23:15 to 00:15		150	0	No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No			
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No			
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No			
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No			

23:30 to 00:30		118	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

23:45 to 00:45		101	0		No	No	No	No
Condition A	Volume >= 100% column (600)?	No	Volume >= 100% column (200)?	No				
	Volume >= 80% column (480)?	No	Volume >= 80% column (160)?	No				
Condition B	Volume >= 100% column (900)?	No	Volume >= 100% column (100)?	No				
	Volume >= 80% column (720)?	No	Volume >= 80% column (80)?	No				

Warrant 2: Four-hour Vehicular Volume

4: Spreckels Ave & Dupont Ct

Intersection Information:

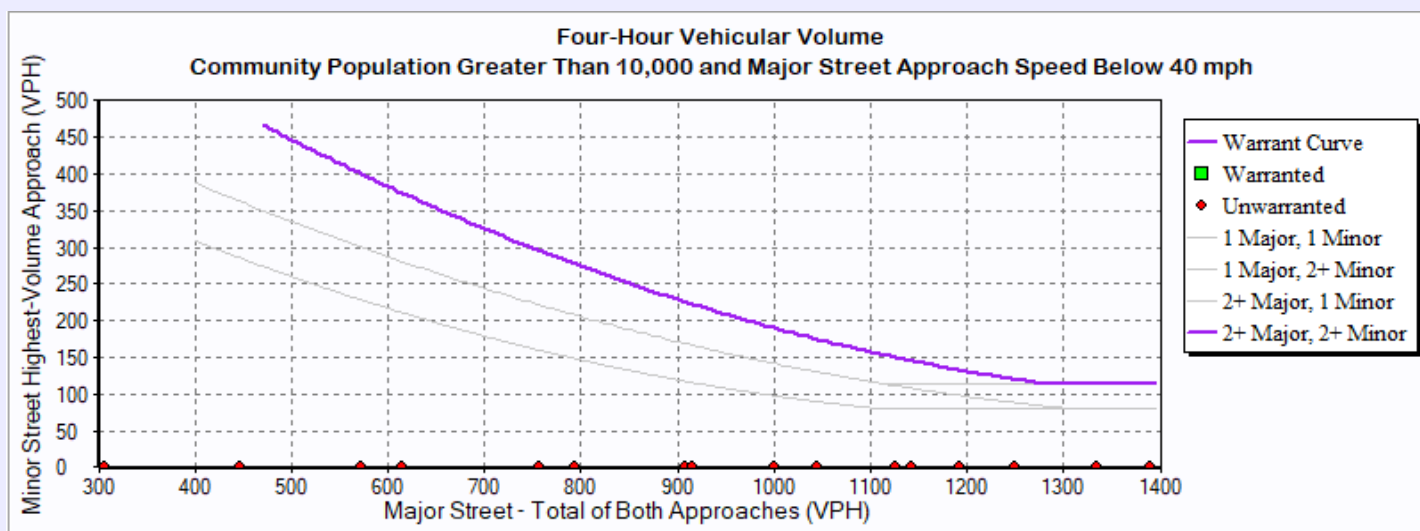
	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 2 Met? **No**

Details:

Notes 0 Hours met (4 required)

Low population? **No**



Hourly Volumes

Time	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
00:00:00 - 01:00:00	82	0
01:00:00 - 02:00:00	62	0
02:00:00 - 03:00:00	68	0
03:00:00 - 04:00:00	27	0
04:00:00 - 05:00:00	95	0
05:00:00 - 06:00:00	84	0
06:00:00 - 07:00:00	234	0
07:00:00 - 08:00:00	307	0
08:00:00 - 09:00:00	615	0
09:00:00 - 10:00:00	793	0
10:00:00 - 11:00:00	908	0
11:00:00 - 12:00:00	915	0
12:00:00 - 13:00:00	1045	0
13:00:00 - 14:00:00	1143	0
14:00:00 - 15:00:00	1001	0
15:00:00 - 16:00:00	1250	0
16:00:00 - 17:00:00	1192	0
17:00:00 - 18:00:00	1389	0
18:00:00 - 19:00:00	1335	0
19:00:00 - 20:00:00	1125	0
20:00:00 - 21:00:00	756	0
21:00:00 - 22:00:00	573	0
22:00:00 - 23:00:00	446	0
23:00:00 - 00:00:00	221	0

Warranted Hours

Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)

Warrant 3: Peak Hour

4: Spreckels Ave & Dupont Ct

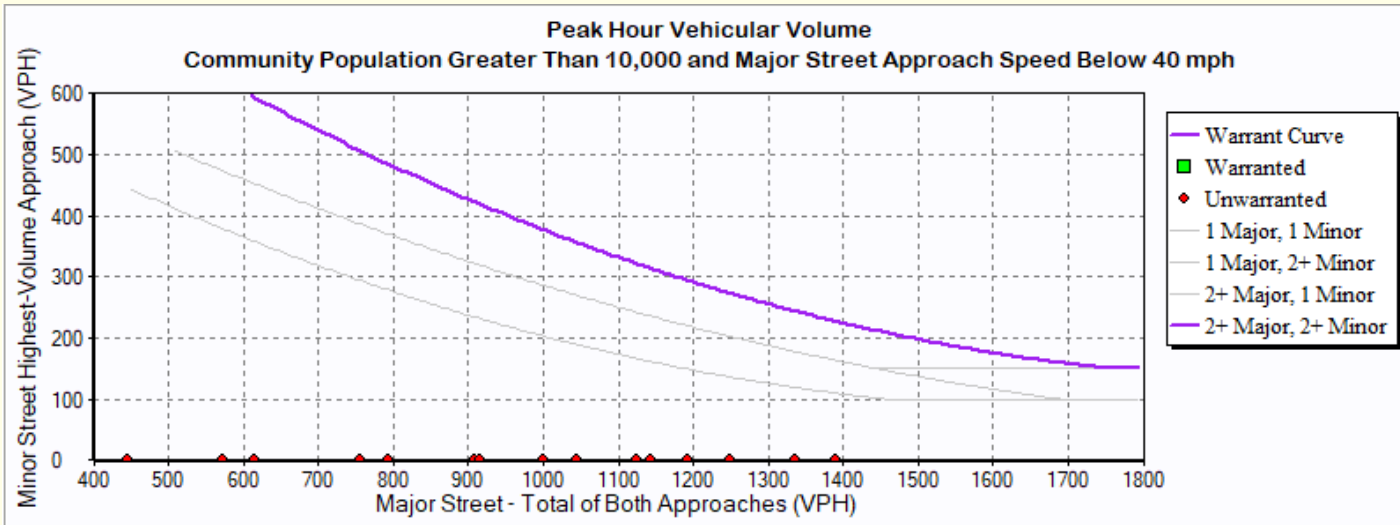
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

Warrant 3 Met? **No**

Details

Low Population?	No		
Condition A Met?	No	Condition B Met?	No
Notes	0 Hours met (1 required)	Notes	0 Hours met (1 required)
Minor Approach Time Delay Condition Met?	Not Met		
Minor Approach Volume Condition Met?	Met		
Total Entering Intersection Volume Condition Met?	Not Met		



Hour	Major Street Total All Approaches (vph)	Minor Street Highest Volume Approach (vph)
0:00	82	0
1:00	62	0
2:00	68	0
3:00	27	0
4:00	95	0
5:00	84	0

6:00	234	0
7:00	307	0
8:00	615	0
9:00	793	0
10:00	908	0
11:00	915	0
12:00	1,045	0
13:00	1,143	0
14:00	1,001	0
15:00	1,250	0
16:00	1,192	0
17:00	1,389	0
18:00	1,335	0
19:00	1,125	0
20:00	756	0
21:00	573	0
22:00	446	0
23:00	221	0

Warrant 4: Pedestrian Volume

4: Spreckels Ave & Dupont Ct

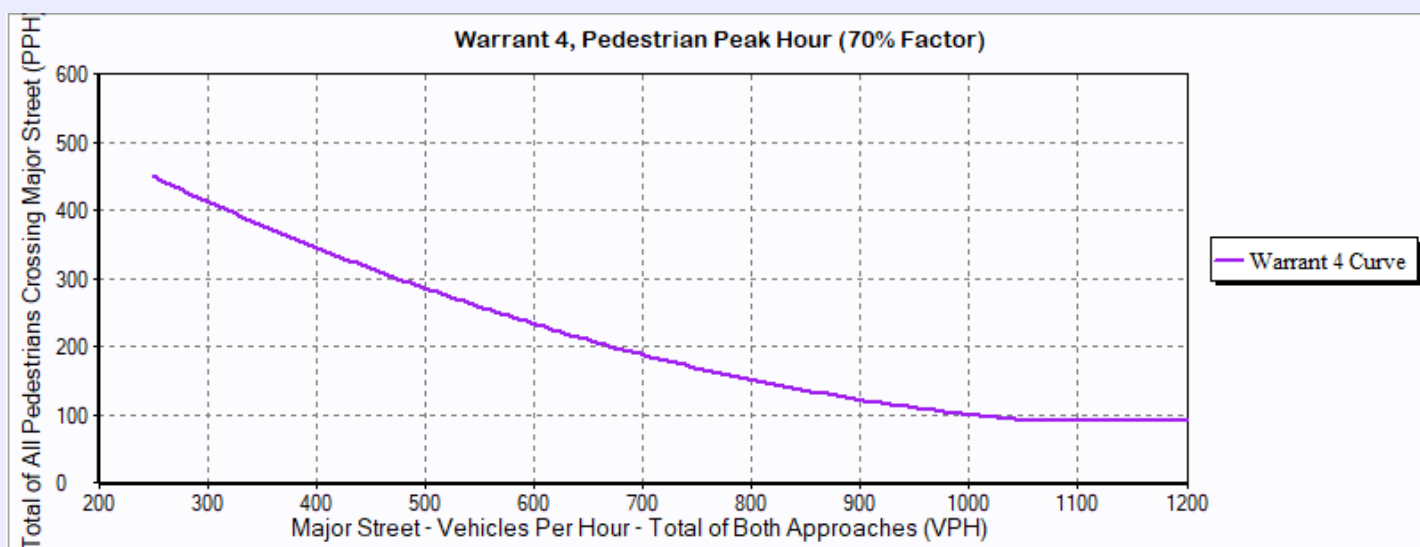
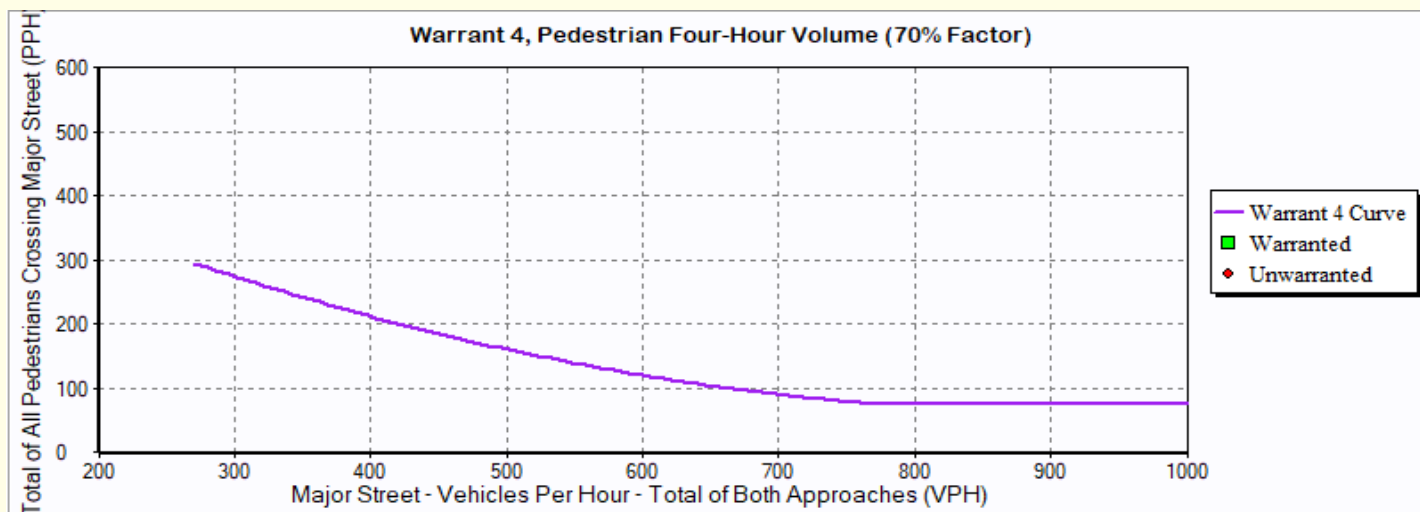
Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 4 MET ? **No**

Details

Pedestrian Four Hour Volume Warrant Met?	No	
Pedestrian Peak Hour Warrant Met?	No	Notes 0 Hours met (4 required)
Speed Limit or 85th Percentile Speed on Major Street > 35mph, or Intersection lies within an Isolated Community with Population < 10,000?	Yes	



Warrant 5: School Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

WARRANT 5 MET? **No**

Details:

Time Period Interval for Students Crossing (min) 0

Number of Students Crossing in Time Period 0

Number of Adequate Gaps in Time Period 0

Other Remedial Measures Attempted? **No**

Adjacent Signal on NB approach? **No**

Distance to signal on NB Approach (ft) -

Adjacent Signal on SB approach? **No**

Distance to signal on SB Approach (ft) -

Will New Signal Restrict Progressive Traffic? **No**

Warrant 6: Coordinated Signal System

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave
Major Street Direction NB/SB

WARRANT 6 MET? No

Details:

Approach Direction & Name	Acceptable Platooning?	Adjacent Coordinating Signal?	Adjacent Intersection Distance
SB Approach (Spreckels Ave)	Yes	No	N/A
NB Approach (Spreckels Ave)	Yes	No	N/A
WB Approach (Dupont Ct)	Yes	No	N/A

Unacceptable Platooning?
(At least one approach)

No

Distance to Closest Signal
(Must be N/A or > 1000)

N/A

Warrant 7: Crash Experience

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name Spreckels Ave

Major Street Direction NB/SB

Minor Street Direction WB

WARRANT 7 MET? **No**

Details:

Low Population?	No	Traffic Volume Condition Met?	No
Major Street Speed Limit	40		0 Hours Met (8 Required)
Major Street 85th-% tile Speed	0.00	Ped Volume Condition Met?	No
			0 Hours Met (8 Required)
Qualifying Crashes		0	
Adequate Alternative Trials?		No	

Hour	Traffic Volumes				Pedestrian Volumes			
	Major Street Vehicles	Minor Street Vehicles	80% Standard Met? A or B		Westbound Ped Volumes		Peds	> 80?
			Condition A	Condition B	Peds	> 80?		> 80?
00:00 to 01:00	82	0	No	No	0	No	0	No
00:15 to 01:15	98	0	No	No	0	No	0	No
00:30 to 01:30	96	0	No	No	0	No	0	No
00:45 to 01:45	70	0	No	No	0	No	0	No
01:00 to 02:00	62	0	No	No	0	No	0	No
01:15 to 02:15	52	0	No	No	0	No	0	No
01:30 to 02:30	45	0	No	No	0	No	0	No
01:45 to 02:45	70	0	No	No	0	No	0	No

02:00 to 03:00	68	0	No	No	0	No	0	No
02:15 to 03:15	63	0	No	No	0	No	0	No
02:30 to 03:30	52	0	No	No	0	No	0	No
02:45 to 03:45	27	0	No	No	0	No	0	No
03:00 to 04:00	27	0	No	No	0	No	0	No
03:15 to 04:15	34	0	No	No	0	No	0	No
03:30 to 04:30	50	0	No	No	0	No	0	No
03:45 to 04:45	63	0	No	No	0	No	0	No
04:00 to 05:00	95	0	No	No	0	No	0	No
04:15 to 05:15	109	0	No	No	0	No	0	No
04:30 to 05:30	103	0	No	No	0	No	0	No
04:45 to 05:45	101	0	No	No	0	No	0	No
05:00 to 06:00	84	0	No	No	0	No	0	No
05:15 to 06:15	90	0	No	No	0	No	0	No
05:30 to 06:30	112	0	No	No	0	No	0	No
05:45 to 06:45	160	0	No	No	0	No	0	No
06:00 to 07:00	234	0	No	No	0	No	0	No
06:15 to 07:15	259	0	No	No	0	No	0	No

06:30 to 07:30	292	0	No	No	0	No	0	No
06:45 to 07:45	311	0	No	No	0	No	0	No
07:00 to 08:00	307	0	No	No	0	No	0	No
07:15 to 08:15	352	0	No	No	0	No	0	No
07:30 to 08:30	410	0	No	No	0	No	0	No
07:45 to 08:45	497	0	No	No	0	No	0	No
08:00 to 09:00	615	0	No	No	0	No	0	No
08:15 to 09:15	761	0	No	No	0	No	0	No
08:30 to 09:30	816	0	No	No	0	No	0	No
08:45 to 09:45	819	0	No	No	0	No	0	No
09:00 to 10:00	793	0	No	No	0	No	0	No
09:15 to 10:15	746	0	No	No	0	No	0	No
09:30 to 10:30	785	0	No	No	0	No	0	No
09:45 to 10:45	845	0	No	No	0	No	0	No
10:00 to 11:00	908	0	No	No	0	No	0	No
10:15 to 11:15	912	0	No	No	0	No	0	No
10:30 to 11:30	920	0	No	No	0	No	0	No
10:45 to 11:45	906	0	No	No	0	No	0	No

11:00 to 12:00	915	0	No	No	0	No	0	No
11:15 to 12:15	971	0	No	No	0	No	0	No
11:30 to 12:30	1,031	0	No	No	0	No	0	No
11:45 to 12:45	1,046	0	No	No	0	No	0	No
12:00 to 13:00	1,045	0	No	No	0	No	0	No
12:15 to 13:15	1,077	0	No	No	0	No	0	No
12:30 to 13:30	1,086	0	No	No	0	No	0	No
12:45 to 13:45	1,107	0	No	No	0	No	0	No
13:00 to 14:00	1,143	0	No	No	0	No	0	No
13:15 to 14:15	1,066	0	No	No	0	No	0	No
13:30 to 14:30	1,050	0	No	No	0	No	0	No
13:45 to 14:45	1,045	0	No	No	0	No	0	No
14:00 to 15:00	1,001	0	No	No	0	No	0	No
14:15 to 15:15	1,075	0	No	No	0	No	0	No
14:30 to 15:30	1,126	0	No	No	0	No	0	No
14:45 to 15:45	1,203	0	No	No	0	No	0	No
15:00 to 16:00	1,250	0	No	No	0	No	0	No
15:15 to 16:15	1,263	0	No	No	0	No	0	No

15:30 to 16:30	1,224	0	No	No	0	No	0	No
15:45 to 16:45	1,181	0	No	No	0	No	0	No
16:00 to 17:00	1,192	0	No	No	0	No	0	No
16:15 to 17:15	1,243	0	No	No	0	No	0	No
16:30 to 17:30	1,272	0	No	No	0	No	0	No
16:45 to 17:45	1,355	0	No	No	0	No	0	No
17:00 to 18:00	1,389	0	No	No	0	No	0	No
17:15 to 18:15	1,394	0	No	No	0	No	0	No
17:30 to 18:30	1,377	0	No	No	0	No	0	No
17:45 to 18:45	1,357	0	No	No	0	No	0	No
18:00 to 19:00	1,335	0	No	No	0	No	0	No
18:15 to 19:15	1,301	0	No	No	0	No	0	No
18:30 to 19:30	1,275	0	No	No	0	No	0	No
18:45 to 19:45	1,190	0	No	No	0	No	0	No
19:00 to 20:00	1,125	0	No	No	0	No	0	No
19:15 to 20:15	1,019	0	No	No	0	No	0	No
19:30 to 20:30	937	0	No	No	0	No	0	No
19:45 to 20:45	859	0	No	No	0	No	0	No

20:00 to 21:00	756	0	No	No	0	No	0	No
20:15 to 21:15	694	0	No	No	0	No	0	No
20:30 to 21:30	649	0	No	No	0	No	0	No
20:45 to 21:45	598	0	No	No	0	No	0	No
21:00 to 22:00	573	0	No	No	0	No	0	No
21:15 to 22:15	537	0	No	No	0	No	0	No
21:30 to 22:30	531	0	No	No	0	No	0	No
21:45 to 22:45	491	0	No	No	0	No	0	No
22:00 to 23:00	446	0	No	No	0	No	0	No
22:15 to 23:15	400	0	No	No	0	No	0	No
22:30 to 23:30	309	0	No	No	0	No	0	No
22:45 to 23:45	264	0	No	No	0	No	0	No
23:00 to 00:00	221	0	No	No	0	No	0	No
23:15 to 00:15	150	0	No	No	0	No	0	No
23:30 to 00:30	118	0	No	No	0	No	0	No
23:45 to 00:45	101	0	No	No	0	No	0	No

Warrant 8: Roadway Network

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name	Spreckels Ave
Major Street Direction	NB/SB
Minor Street Direction	WB

WARRANT 8 MET? (A or B) **No**

Details:

Growth Rates % (per year)			
	NB	SB	WB
L		0.00	0.00
T	0.00	0.00	
R	0.00		0.00

Condition A, Total Entering Volume		Condition B, Non-normal Business Day		
			Existing	Future
Existing Peak Hour	1,394	Highest Hour	0	0
Years	0.00	Second Highest Hour	0	0
Future Peak Hour	1,394	Third Highest Hour	0	0
Warrant 1 in 5 Years?	No	Fourth Highest Hour	0	0
Warrant 2 in 5 Years?	No	Fifth Highest Hour	0	0
Warrant 3 in 5 Years?	No	Yearly Growth Rate (%)	0.00	
		Years	0.00	

Condition A Met? **No**

Condition B Met? **No**

Warrant 9: Intersection Near a Grade Crossing

4: Spreckels Ave & Dupont Ct

Intersection Information:

	Major Street	Minor Street
Street Name	Spreckels Ave	Dupont Ct
Direction	NB/SB	WB
Number of Lanes	2	2
Approach Speed	40	30

WARRANT 9 MET ? **No**

Details

Note **No approach with a railroad grade crossing**

Minor street approach having a grade crossing

Distance from the center of the track to the stop or yield line Interpolated

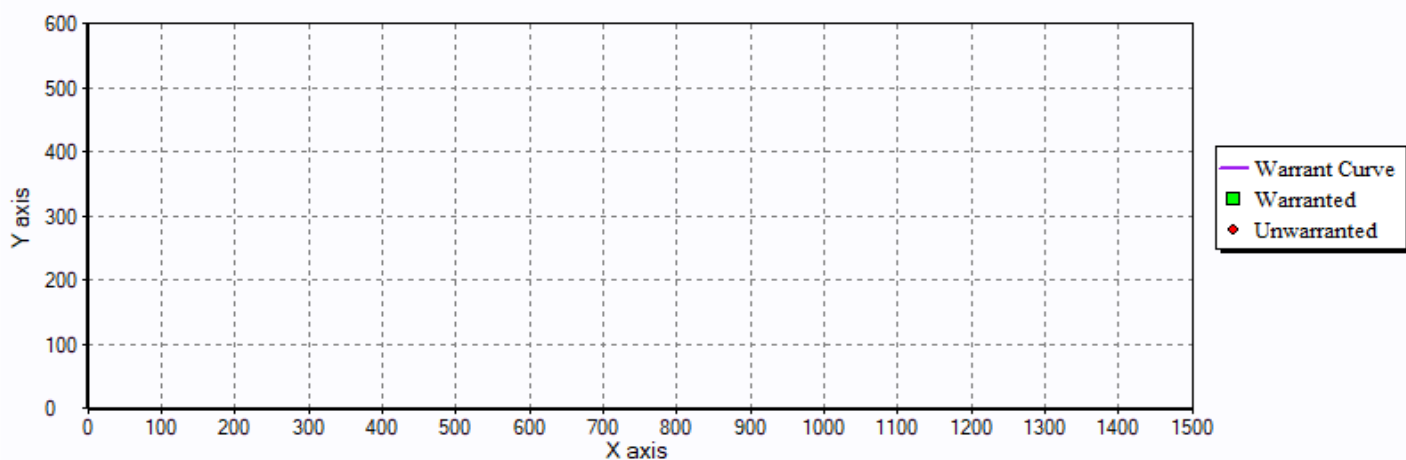
Number of occurrences of rail traffic per day Adjustment Factor

Percentage of high-occupancy buses crossing the track (%) Adjustment Factor

Percentage of tractor-trailer trucks crossing the track (%) Adjustment Factor

The rail traffic arrival times are unknown, the highest traffic volume hour of the day is used

Warrant



Hour	Major Street Total of Both Approaches (vph)	Minor Street Adjusted Volume Crossing Tracks (vph)

Bicycle Warrant

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

BICYCLE WARRANT MET? **No**

Details:

Collision (2 or more counts) 0

Geometric Path **No**

Volume Condition Met? **No**

Notes: No hour met

Hour	Traffic Volumes	Bicycle Volumes	Condition	
	Vehicles entering the intersection (V)	Bicycles entering the intersection (B)	$B * V > 50,000?$	$B \geq 50?$
00:00 to 01:00	82	0	No	No
00:15 to 01:15	98	0	No	No
00:30 to 01:30	96	0	No	No
00:45 to 01:45	70	0	No	No
01:00 to 02:00	62	0	No	No
01:15 to 02:15	52	0	No	No
01:30 to 02:30	45	0	No	No
01:45 to 02:45	70	0	No	No
02:00 to 03:00	68	0	No	No
02:15 to 03:15	63	0	No	No
02:30 to 03:30	52	0	No	No
02:45 to 03:45	27	0	No	No
03:00 to 04:00	27	0	No	No
03:15 to 04:15	34	0	No	No
03:30 to 04:30	50	0	No	No
03:45 to 04:45	63	0	No	No
04:00 to 05:00	95	0	No	No
04:15 to 05:15	109	0	No	No
04:30 to 05:30	103	0	No	No
04:45 to 05:45	101	0	No	No
05:00 to 06:00	84	0	No	No

05:15 to 06:15	90	0	No	No
05:30 to 06:30	112	0	No	No
05:45 to 06:45	160	0	No	No
06:00 to 07:00	234	0	No	No
06:15 to 07:15	259	0	No	No
06:30 to 07:30	292	0	No	No
06:45 to 07:45	311	0	No	No
07:00 to 08:00	307	0	No	No
07:15 to 08:15	352	0	No	No
07:30 to 08:30	410	0	No	No
07:45 to 08:45	497	0	No	No
08:00 to 09:00	615	0	No	No
08:15 to 09:15	761	0	No	No
08:30 to 09:30	816	0	No	No
08:45 to 09:45	819	0	No	No
09:00 to 10:00	793	0	No	No
09:15 to 10:15	746	0	No	No
09:30 to 10:30	785	0	No	No
09:45 to 10:45	845	0	No	No
10:00 to 11:00	908	0	No	No
10:15 to 11:15	912	0	No	No
10:30 to 11:30	920	0	No	No
10:45 to 11:45	906	0	No	No
11:00 to 12:00	915	0	No	No
11:15 to 12:15	971	0	No	No
11:30 to 12:30	1,031	0	No	No
11:45 to 12:45	1,046	0	No	No
12:00 to 13:00	1,045	0	No	No
12:15 to 13:15	1,077	0	No	No
12:30 to 13:30	1,086	0	No	No
12:45 to 13:45	1,107	0	No	No
13:00 to 14:00	1,143	0	No	No
13:15 to 14:15	1,066	0	No	No
13:30 to 14:30	1,050	0	No	No
13:45 to 14:45	1,045	0	No	No
14:00 to 15:00	1,001	0	No	No
14:15 to 15:15	1,075	0	No	No

14:30 to 15:30	1,126	0	No	No
14:45 to 15:45	1,203	0	No	No
15:00 to 16:00	1,250	0	No	No
15:15 to 16:15	1,263	0	No	No
15:30 to 16:30	1,224	0	No	No
15:45 to 16:45	1,181	0	No	No
16:00 to 17:00	1,192	0	No	No
16:15 to 17:15	1,243	0	No	No
16:30 to 17:30	1,272	0	No	No
16:45 to 17:45	1,355	0	No	No
17:00 to 18:00	1,389	0	No	No
17:15 to 18:15	1,394	0	No*	No*
17:30 to 18:30	1,377	0	No	No
17:45 to 18:45	1,357	0	No	No
18:00 to 19:00	1,335	0	No	No
18:15 to 19:15	1,301	0	No	No
18:30 to 19:30	1,275	0	No	No
18:45 to 19:45	1,190	0	No	No
19:00 to 20:00	1,125	0	No	No
19:15 to 20:15	1,019	0	No	No
19:30 to 20:30	937	0	No	No
19:45 to 20:45	859	0	No	No
20:00 to 21:00	756	0	No	No
20:15 to 21:15	694	0	No	No
20:30 to 21:30	649	0	No	No
20:45 to 21:45	598	0	No	No
21:00 to 22:00	573	0	No	No
21:15 to 22:15	537	0	No	No
21:30 to 22:30	531	0	No	No
21:45 to 22:45	491	0	No	No
22:00 to 23:00	446	0	No	No
22:15 to 23:15	400	0	No	No
22:30 to 23:30	309	0	No	No
22:45 to 23:45	264	0	No	No
23:00 to 00:00	221	0	No	No
23:15 to 00:15	150	0	No	No
23:30 to 00:30	118	0	No	No

All-Way Stop Control Warrant: Multiway Stop Applications

4: Spreckels Ave & Dupont Ct

Intersection Information:

Major Street Name: Spreckels Ave

Major Street Direction: NB/SB

Minor Street Direction: WB

AWSC WARRANT MET? **No**

Details:

Condition A Met?	No	Qualifying Crashes	0
Condition B Met?	No	Major Street 85th %-tile Speed	0.00
Condition C Met?	No	Major Street Speed Limit	40
Notes: 0 Hours Met (8 Required)			

Hour	Traffic Volumes		Bicycle Volumes		Ped Volumes		Condition C		
	Major Street	Minor Street	North Bound Bicycle Volumes	West Bound Bicycle Volumes	North Bound Ped Volumes	West Bound Ped Volumes	Major Street	Minor Street	
							Veh Vol > 210	Avg(Veh + Ped + Bicycle) > 200	Delay > 30