



To: Ann French Gonsalves, RTE, DCE
City of San Diego

From: Naomi Germain, PE, TE
Kimley-Horn & Associates

Date: April 13, 2026

RE: *Bunker Hill Apartments (Site 2) – Traffic Signal Warrant Analysis for Balboa Avenue and Morena Boulevard Northbound Ramp, Morena Boulevard and Jutland Drive (PRJ-1132845)*

Dear Ms. Gonsalves,

In accordance with your request, Kimley-Horn and Associates has prepared a letter summarizing trip generation, distribution, and assignment and traffic signal warrant analyses for the proposed Bunker Hill Apartments (Site 2) project ("project"). The project includes the construction of a new 3-story multifamily building with 20 dwelling units at 2923 Bunker Hill Street in the Pacific Beach neighborhood of San Diego and requires a discretionary Coastal Development Permit (CDP).

The project lies within an urban, residential zone of San Diego that is within the Community Village area of the Balboa Avenue Station Area Specific Plan. The Specific Plan was adopted by the City of San Diego in 2019, and by the California Coastal Commission in 2019, and the plan calls for the construction of two traffic signals (if warranted) prior to any future development with the Community Village area of the Specific Plan. The Supplemental Development Regulation (SDR) excerpts are included below:

SDR-5 No development permits shall be issued for any development project on properties designated Community Village until a traffic signal has been installed at the intersection of the Morena Boulevard northbound ramp and Balboa Avenue unless the warrants for a traffic signal are not met as determined by the City Engineer in accordance with Council Policy 200-06.

SDR-6 No development permits shall be issued for any development project on properties designated Community Village until either a traffic signal or roundabout is installed at the intersection of Morena Boulevard and Jutland Drive, unless the warrants for the traffic signals are not met as determined by the City Engineer in accordance with Council Policy 200-06.

Accordingly, traffic signal warrant analyses were completed for the intersections of **Balboa Avenue with Morena Boulevard Northbound Ramp** and **Morena Boulevard with Jutland Drive**. As discussed below, results of the warrant analyses are not anticipated to differ under both Existing and Existing Plus Project conditions

The traffic signal warrant analyses are based on 8-hour vehicle, bicycle, and pedestrian intersection movement counts and 24-hour vehicle approach volume counts that were collected by National Data & Surveying Services (NDS) on Tuesday, July 8, 2025. The counts are provided in **Attachment A**.

PROJECT TRIP GENERATION, DISTRIBUTION, AND ASSIGNMENT

Kimley-Horn developed project trip generation using the City of San Diego Trip Generation Manual (2003). Trip generation is summarized in **Table 1: Trip Generation**.

Table 1: Trip Generation

Land Use	Size	Trip Rate	Unit	Daily Trips	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Multiple Dwelling Unit – Over 20 DU / Acre	20	6	DU	120	2	8	10	8	3	11

Source: City of San Diego Trip Generation Manual (2003)

Replica, which provides location-based service data, was used to estimate trip distribution for the project site. Replica allows users to analyze anonymous travel patterns to and from geographic areas (i.e., zones). For this study, the 0.04-mile zone around 2636 Grand Avenue, a 3-story, multifamily building located 0.5 miles from the project site was used as a proxy site to represent comparable travel patterns. The proxy site is located between Grand Avenue and Garnet Avenue, similar to the project site, and has similar access points to the regional network, resulting in similar travel distribution patterns.

The project team used Replica's private auto and taxi/TNC data from spring 2025. Two types of demand analyses were utilized to estimate the project's expected travel patterns:

- **Origin analysis** analyzed outbound trips originating from the proxy site in the am peak (7-9 am). This analysis was used to identify trends in egress for the project.
- **Destination analysis** analyzed inbound trips destined to the proxy site in the pm peak (4-6 pm). This analysis was used to identify trends in ingress for the project.

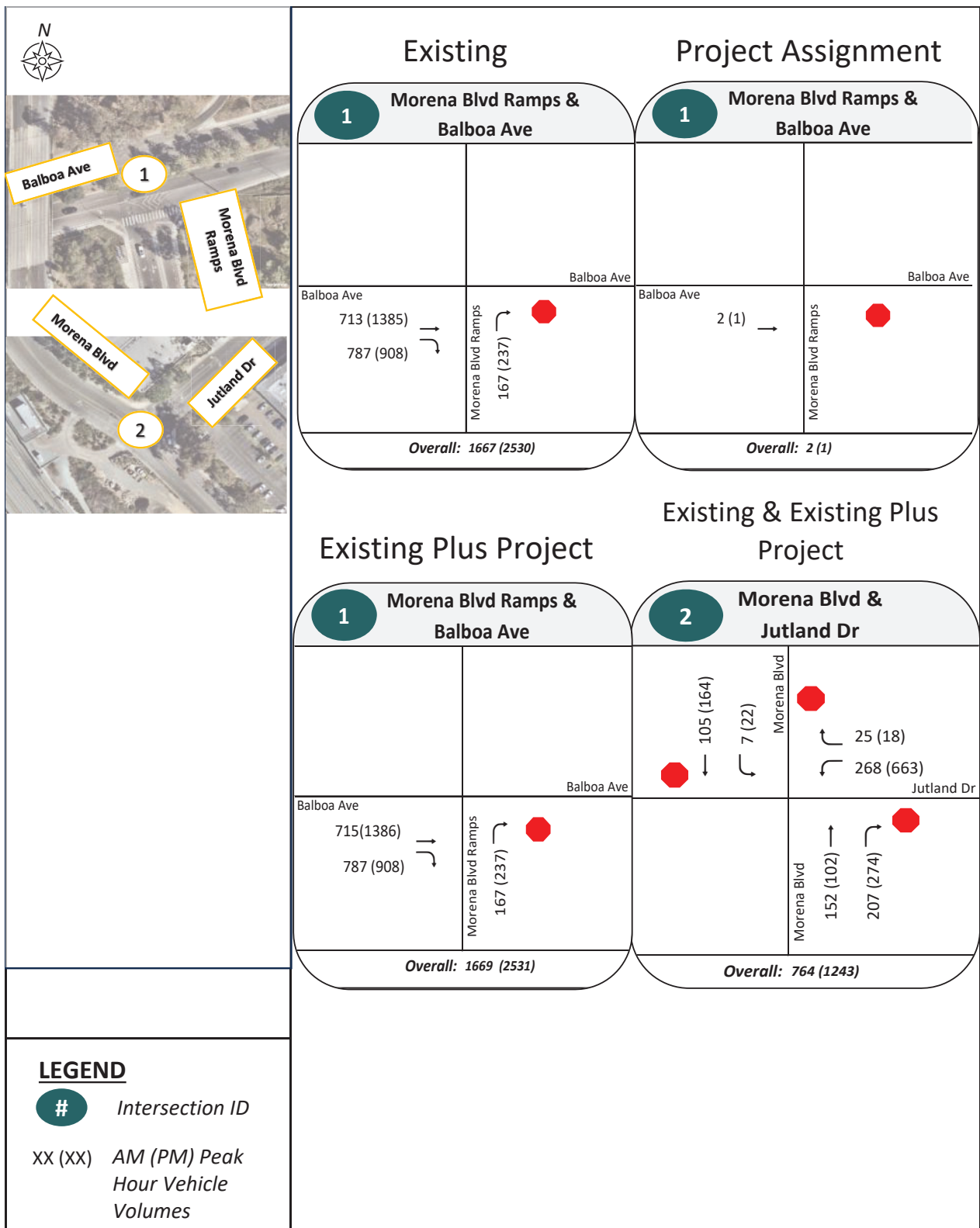
The results were post-processed with minor balancing and rounding revisions to develop the trip distribution illustrated in **Figure 1: Bunker Hill Apartments Trip Distribution**.

The project trip generation was applied to the trip distribution to develop project trip assignments. Peak hour trip assignments for the intersections of Morena Boulevard Northbound Ramps with Balboa Avenue and Morena Boulevard and Jutland Drive, along with Existing and Existing Plus Project peak hour turning movements, are illustrated in **Figure 2: Peak Hour Intersection Turning Movements**. Existing peak hour turning movements for the intersection of Morena Boulevard with Jutland Drive are also illustrated in Figure 2. Given the low project trip distribution to the intersection of Morena Boulevard and Jutland Drive, the project is anticipated to add negligible traffic and is not expected to add project trips during the AM or PM peak hours.

Figure 1. Bunker Hill St Apartments Trip Distribution



Figure 2. Peak Hour Intersection Turning Movements



SIGNAL WARRANT ANALYSIS: BALBOA AVENUE AND MORENA BOULEVARD NORTHBOUND RAMP

At the study intersection, Balboa Avenue functions as a one-way eastbound street due to the presence of a raised center median and has a speed limit of 35 mph, and a recorded eastbound 85th percentile speed of 42 mph. South of Balboa Avenue, the Morena Boulevard Northbound Ramp runs north-south and meets Balboa Avenue as a T-intersection. As shown in **Figure 3: Intersection of Balboa Avenue with Morena Boulevard Northbound Ramp**, Balboa Avenue is uncontrolled with two eastbound through lanes and an eastbound right-turn pocket and Morena Boulevard (Northbound Ramp) is yield controlled, with a right-turn only lane.

Figure 3: Intersection of Balboa Avenue with Morena Boulevard Northbound Ramp



Using the California Manual on Uniform Traffic Control Devices (CA-MUTCD) (2014 Edition, Revision 9) warrants, the intersection of Balboa Avenue with Morena Boulevard Ramp was evaluated for signalization.

Below is a summary of the analysis:

- Warrant 1 – Eight Hour Vehicular Volume
 - The 8-hour traffic volumes that satisfy the major street thresholds and the minor street thresholds specified in Warrant 1 (as indicated in the 100 percent column) were utilized for the analysis. The current vehicular volumes entering the study intersection meet the 8-hour volume thresholds as defined by Conditions A and B. **Warrant 1 is satisfied.**
- Warrant 2 – Four Hour Vehicular Volume

- The existing vehicular volumes entering the study intersection meet the 4-hour volume thresholds. **Warrant 2 is satisfied.**
- Warrant 3 – Peak Hour
 - The existing vehicular volumes entering the study intersection meet the peak hour volume thresholds. **Warrant 3 is satisfied.**
- Warrant 4 – Pedestrian Volume
 - With 4 pedestrians in the highest peak-hour and 12 pedestrians in the peak 4-hours, the existing pedestrian volumes entering the study intersection do not meet the 4-hour or peak-hour volume thresholds. **Warrant 4 is not satisfied.**
- Warrant 5 – School Crossing
 - Does not apply to this intersection since Balboa Avenue does not serve as a desired school crossing location. **Warrant 5 is not satisfied.**
- Warrant 6 – Coordinated Signal System
 - Based on aerial observations, the nearest existing signal system is less than the minimum 1,000' spacing required. Therefore, **Warrant 6 is not satisfied.**
- Warrant 7 – Crash Experience Warrant
 - There were four reported injury crashes at this intersection from 2020-2024 (Statewide Integrated Traffic Records System (SWITRS), 2025). The collisions included two rear ends (2021, 2023), a hit object (2022), and improper motorcycle turning (2024). There is not a reported history of pedestrian or bicycle collisions at the intersection within the last five years. Therefore, the intersection does not meet the 12-month crash experience threshold. **Warrant 7 is not satisfied.**
- Warrant 8 – Roadway Network
 - Morena Boulevard Ramp is not classified as a major roadway in the Clairemont Mesa Community Plan (Update adopted December 2025). **Warrant 8 is not satisfied.**
- Warrant 9 – Intersection Near a Grade Crossing
 - Does not apply to this intersection since not located near a grade crossing. **Warrant 9 is not satisfied.**

SIGNAL WARRANT ANALYSIS: MORENA BOULEVARD AND JUTLAND DRIVE

Morena Boulevard runs approximately north-south and has a speed limit of 45 mph near the study intersection. Jutland Drive runs approximately east-west and meets Morena Boulevard at an intersection with a rail maintenance driveway located on the west side of the intersection. As illustrated in **Figure 4: Intersection of Morena Boulevard and Jutland Drive**, the intersection has a total of three approaches, exclusive of a private service driveway, and is all-way stop controlled. Northbound Morena Boulevard has one through lane and one right-turn lane, southbound Morena Boulevard has one through lane and one through-left lane, and Jutland Drive has one right-turn lane and one left-turn lane.

The proposed project would add negligible traffic to this intersection given that the trip distribution estimates 1% of inbound and 0.5% of outbound trips to and from the project site would travel through the intersection; therefore, the warrant analysis is the same under both Existing and Existing Plus Project Conditions.

Figure 4: Intersection of Morena Boulevard and Jutland Drive



Using the CA-MUTCD warrants, the intersection of Morena Boulevard with Jutland Drive was evaluated for signalization. The warrant analysis is included as **Attachment B**. Below is a summary of the analysis:

- Warrant 1 – Eight Hour Vehicular Volume
 - The 8-hour traffic volumes that satisfy the major street thresholds and the minor street thresholds specified in Warrant 1 were utilized for the analysis. The current vehicular volumes entering the study intersection meet the 8-hour volume thresholds as defined by Condition A. **Warrant 1 is satisfied.**
- Warrant 2 – Four Hour Vehicular Volume
 - The existing vehicular volumes entering the study intersection meet the 4-hour volume thresholds (70 percent factor). The 70 percent factor was used because the speed limit on Morena Boulevard is greater than 40 mph. **Warrant 2 is satisfied.**
- Warrant 3 – Peak Hour
 - The existing vehicular volumes entering the study intersection from Morena Boulevard and Jutland Drive approach meet the peak hour volume thresholds (70 percent factor). The 70 percent factor was used because the speed limit on Morena Boulevard is greater than 40 mph. **Warrant 3 is satisfied.**
- Warrant 4 – Pedestrian Volume
 - The existing pedestrian volumes entering the study intersection do not meet the 4-hour or peak-hour volume thresholds. **Warrant 4 is not satisfied.**
- Warrant 5 – School Crossing
 - Does not apply to this intersection since not located near a school. **Warrant 5 is not satisfied.**
- Warrant 6 – Coordinated Signal System
 - Based on aerial observations, there is one adjacent signal approximately 1,700' away. Providing an additional signal at the intersection is not anticipated to create a beneficial platooning operation along the corridor. **Warrant 6 is not satisfied.**
- Warrant 7 – Crash Experience Warrant
 - There was one reported crash at this intersection from 2020-2024 (Statewide Integrated Traffic System (SWITRS), 2025). The collision report states improper turning and hit object (2020). There is not a reported history of pedestrian or bicycle collisions at the intersection within the last five years. Therefore, the intersection does not meet the 12-month crash experience threshold. **Warrant 7 is not satisfied.**
- Warrant 8 – Roadway Network
 - Jutland Drive has an existing and future classification as a 2-lane collector per the Clairemont Mesa Community Plan (Update adopted December 2025). **Warrant 8 is not satisfied.**
- Warrant 9 – Intersection Near a Grade Crossing
 - Does not apply to this intersection since not located near a grade crossing. **Warrant 9 is not satisfied.**

FAIR SHARE CALCULATIONS

As a result of both intersections satisfying at least one signal warrant, the project is responsible for a fair share contribution towards the signalization of each intersection. The fair share contribution is based on the amount of project traffic added to the intersection during the peak hour as a percentage of the total traffic volumes at the intersection during the same peak hour.

$$\text{Fair Share Contribution \%} = \frac{\text{Peak Hour Project Traffic}}{\text{Peak Hour Total Intersection Traffic Volumes}}$$

The fair share contributions for each intersection are calculated below.

Balboa Avenue and Morena Blvd Northbound Ramps

The amount of project traffic traveling through the intersection of Balboa Avenue and Morena Boulevard Northbound Ramps is equal to 22% of the project's peak hour trips out during each peak hour. This equates to 6 trips in the AM peak and 2 trips in the PM peak.

$$\text{AM Fair Share Contribution \%} = \frac{2}{1,667} = 0.12\%$$

$$\text{PM Fair Share Contribution \%} = \frac{1}{2,530} = 0.04\%$$

Therefore, the project is responsible for 0.12% of the cost of installation of a new traffic signal. It is assumed the traffic signal would be a half signal for the eastbound direction of travel on Balboa Avenue, as the westbound direction has all free movements with no conflicts.

Morena Blvd and Jutland Drive

The amount of project traffic traveling through the intersection of Morena Boulevard and Jutland Drive is equal to 0.5% of the peak hour trips out plus 1% of the peak hour trips in during each peak hour. This equates to 0 trips in the AM peak and 0 trips in the PM peak. Therefore, the project is not responsible for a fair share contribution towards this intersection.

CONCLUSION

After performing the applicable traffic signal warrants outlined in the CA-MUTCD, it was determined that **Balboa Avenue and Morena Boulevard Northbound Ramp** intersection satisfies **Warrants 1, 2, and 3**. Additionally **Morena Boulevard and Jutland Drive** satisfies **Warrants 1, 2 and 3**. Therefore, SDR-5 and SDR-6 of the Balboa Avenue Station Area Specific Plan are applicable to this project.

The project is not anticipated to add project traffic to the Morena Boulevard and Jutland Drive intersection. Therefore, the project is not responsible for signal improvements at this location. For the Balboa Avenue and Morena Boulevard Northbound Ramp intersection, fair share contribution will be made based on the amount of project traffic anticipated to be added to the intersection. Based on the fair share contribution calculation, **the project will be responsible for 0.12% of the cost of installation of a new traffic signal at the Balboa Avenue and Morena Boulevard Northbound Ramp intersection.**

Please call me if you have any questions or comments.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

A handwritten signature in black ink that reads "Naomi Germain". The signature is fluid and cursive, with the first name "Naomi" and last name "Germain" clearly legible.

Naomi Germain, P.E., T.E.

P.E. No. 87935

T.E. No. 3056

Attachments:

- Attachment A – Existing Traffic Count Data Sheets
- Attachment B – CA-MUTCD Traffic Signal Warrant Excerpts, Worksheets, and Calculations
- Attachment C – Statewide Integrated Traffic Records System (SWITRS) Data



Attachment A – Existing Traffic Count Data Sheets

VOLUME**Morena Blvd NB Ramps S/O Balboa Ave**

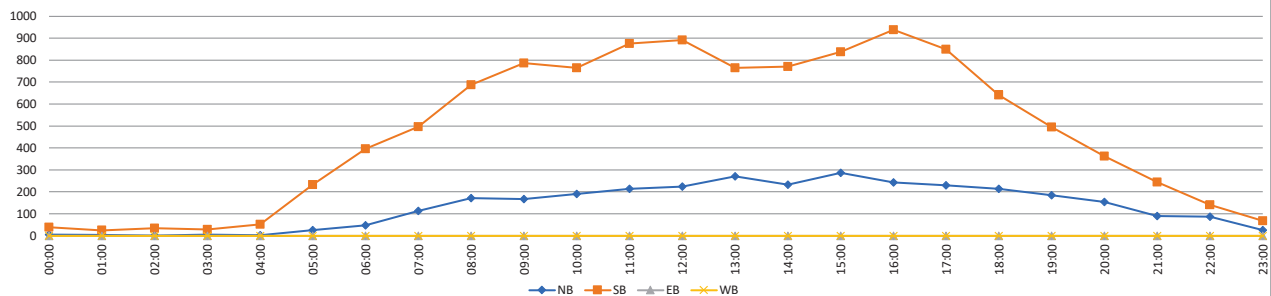
Day: Tuesday

Date: 7/8/2025

City: San Diego

Project #: CA25_040117_004

DAILY TOTALS						NB		SB		EB		WB		Total	DAILY TOTALS					
						3,188		11,420		0		0		14,608						
15-Minutes Interval												Hourly Intervals								
TIME	NB	SB	EB	WB	TOTAL	TIME	NB	SB	EB	WB	TOTAL	TIME		NB	SB	EB	WB	TOTAL		
0:00	1	12			13	12:00	60	224			284	00:00	01:00	5	39			44		
0:15	0	9			9	12:15	60	231			291	01:00	02:00	4	25			29		
0:30	0	7			7	12:30	47	226			273	02:00	03:00	1	35			36		
0:45	4	11			15	12:45	57	210			267	03:00	04:00	6	28			34		
1:00	0	8			8	13:00	68	194			262	04:00	05:00	3	52			55		
1:15	3	6			9	13:15	63	192			255	05:00	06:00	26	233			259		
1:30	1	7			8	13:30	70	174			244	06:00	07:00	47	396			443		
1:45	0	4			4	13:45	69	205			274	07:00	08:00	113	497			610		
2:00	0	7			7	14:00	63	206			269	08:00	09:00	171	687			858		
2:15	0	10			10	14:15	45	193			238	09:00	10:00	167	787			954		
2:30	1	12			13	14:30	66	190			256	10:00	11:00	190	764			954		
2:45	0	6			6	14:45	59	182			241	11:00	12:00	214	875			1089		
3:00	4	5			9	15:00	68	175			243	12:00	13:00	224	891			1115		
3:15	1	4			5	15:15	74	231			305	13:00	14:00	270	765			1035		
3:30	0	6			6	15:30	82	221			303	14:00	15:00	233	771			1004		
3:45	1	13			14	15:45	63	211			274	15:00	16:00	287	838			1125		
4:00	1	4			5	16:00	62	211			273	16:00	17:00	243	938			1181		
4:15	0	10			10	16:15	68	241			309	17:00	18:00	229	849			1078		
4:30	2	18			20	16:30	61	249			310	18:00	19:00	214	640			854		
4:45	0	20			20	16:45	52	237			289	19:00	20:00	185	495			680		
5:00	3	21			24	17:00	71	207			278	20:00	21:00	154	362			516		
5:15	5	46			51	17:15	50	244			294	21:00	22:00	90	244			334		
5:30	7	59			66	17:30	64	222			286	22:00	23:00	87	141			228		
5:45	11	107			118	17:45	44	176			220	23:00	00:00	25	68			93		
6:00	10	71			81	18:00	58	163			221	STATISTICS								
6:15	7	92			99	18:15	56	203			259		NB	SB	EB	WB	TOTAL			
6:30	16	114			130	18:30	58	154			212	Peak Period	00:00	to	12:00					
6:45	14	119			133	18:45	42	120			162	Volume	947	4418			5365			
7:00	18	128			146	19:00	54	129			183	Peak Hour	10:45	11:00			11:00			
7:15	30	115			145	19:15	42	125			167	Peak Volume	222	875			1089			
7:30	29	121			150	19:30	47	112			159	Peak Hour Factor	0.957	0.923			0.936			
7:45	36	133			169	19:45	42	129			171	Peak Period	12:00	to	00:00					
8:00	33	136			169	20:00	39	109			148	Volume	2241	7002			9243			
8:15	52	178			230	20:15	41	97			138	Peak Hour	15:00	16:00			16:15			
8:30	33	162			195	20:30	38	96			134	Peak Volume	287	938			1186			
8:45	53	211			264	20:45	36	60			96	Peak Hour Factor	0.875	0.942			0.956			
9:00	37	210			247	21:00	24	66			90	Peak Period	07:00	to	09:00					
9:15	34	172			206	21:15	26	61			87	Volume	284	1184			1468			
9:30	56	179			235	21:30	19	69			88	Peak Hour	8:00	8:00			8:00			
9:45	40	226			266	21:45	21	48			69	Peak Volume	171	687			858			
10:00	48	202			250	22:00	42	57			99	Peak Hour Factor	0.807	0.814			0.813			
10:15	39	187			226	22:15	30	34			64	Peak Period	16:00	to	18:00					
10:30	45	178			223	22:30	10	23			33	Volume	472	1787			2259			
10:45	58	197			255	22:45	5	27			32	Peak Hour	16:15	16:00			16:15			
11:00	56	211			267	23:00	6	19			25	Peak Volume	252	938			1186			
11:15	54	237			291	23:15	11	18			29	Peak Hour Factor	0.887	0.942			0.956			
11:30	54	213			267	23:30	6	16			22									
11:45	50	214			264	23:45	2	15			17									
TOTALS	947	4418	0	0	5365	TOTALS	2241	7002	0	0	9243									
SPLIT %	18%	82%	0%	0%	37%	SPLIT %	24%	76%	0%	0%	63%									



VOLUME

Balboa Ave E/O Morena Blvd NB Ramps

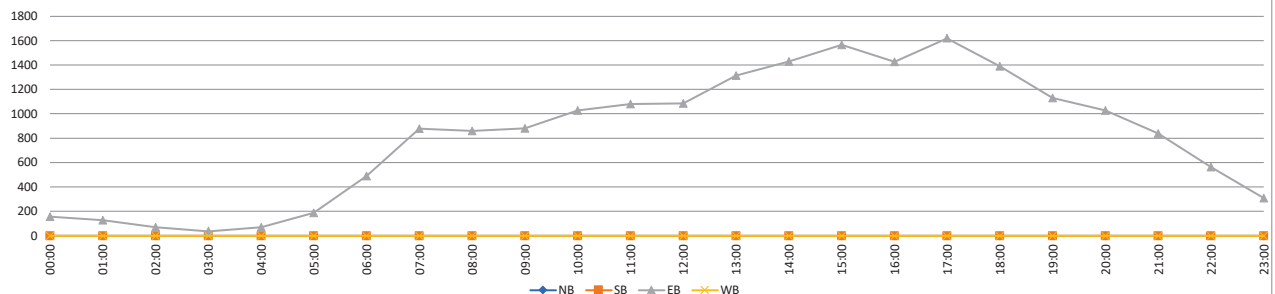
Day: Tuesday

Date: 7/8/2025

City: San Diego

Project #: CA25_040117_005

DAILY TOTALS						NB		SB		EB		WB		Total		DAILY TOTALS					
						0		0		19,556		0		19,556							
15-Minutes Interval												Hourly Intervals									
TIME	NB	SB	EB	WB	TOTAL	TIME	NB	SB	EB	WB	TOTAL	TIME	NB	SB	EB	WB	TOTAL				
0:00			39		39	12:00			277		277	00:00	01:00		157		157				
0:15			39		39	12:15			271		271	01:00	02:00		128		128				
0:30			30		30	12:30			272		272	02:00	03:00		71		71				
0:45			49		49	12:45			265		265	03:00	04:00		38		38				
1:00			47		47	13:00			320		320	04:00	05:00		71		71				
1:15			32		32	13:15			333		333	05:00	06:00		187		187				
1:30			28		28	13:30			337		337	06:00	07:00		489		489				
1:45			21		21	13:45			324		324	07:00	08:00		877		877				
2:00			22		22	14:00			342		342	08:00	09:00		859		859				
2:15			21		21	14:15			318		318	09:00	10:00		880		880				
2:30			19		19	14:30			384		384	10:00	11:00		1028		1028				
2:45			9		9	14:45			385		385	11:00	12:00		1079		1079				
3:00			13		13	15:00			357		357	12:00	13:00		1085		1085				
3:15			10		10	15:15			381		381	13:00	14:00		1314		1314				
3:30			8		8	15:30			429		429	14:00	15:00		1429		1429				
3:45			7		7	15:45			398		398	15:00	16:00		1565		1565				
4:00			15		15	16:00			338		338	16:00	17:00		1425		1425				
4:15			18		18	16:15			346		346	17:00	18:00		1620		1620				
4:30			20		20	16:30			360		360	18:00	19:00		1388		1388				
4:45			18		18	16:45			381		381	19:00	20:00		1129		1129				
5:00			20		20	17:00			425		425	20:00	21:00		1028		1028				
5:15			35		35	17:15			400		400	21:00	22:00		838		838				
5:30			46		46	17:30			416		416	22:00	23:00		562		562				
5:45			86		86	17:45			379		379	23:00	00:00		309		309				
6:00			97		97	18:00			329		329	STATISTICS									
6:15			88		88	18:15			386		386		NB	SB	EB	WB	TOTAL				
6:30			137		137	18:30			355		355	Peak Period	00:00	to	12:00						
6:45			167		167	18:45			318		318	Volume			5864		5864				
7:00			167		167	19:00			294		294	Peak Hour			10:45		10:45				
7:15			199		199	19:15			277		277	Peak Volume			1083		1083				
7:30			235		235	19:30			306		306	Peak Hour Factor			0.900		0.900				
7:45			276		276	19:45			252		252										
8:00			258		258	20:00			278		278	Peak Period	12:00	to	00:00						
8:15			201		201	20:15			266		266	Volume			13692		13692				
8:30			211		211	20:30			257		257	Peak Hour			16:45		16:45				
8:45			189		189	20:45			227		227	Peak Volume			1622		1622				
9:00			202		202	21:00			224		224	Peak Hour Factor			0.954		0.954				
9:15			217		217	21:15			208		208										
9:30			227		227	21:30			249		249	Peak Period	07:00	to	09:00						
9:45			234		234	21:45			157		157	Volume			1736		1736				
10:00			240		240	22:00			201		201	Peak Hour			7:30		7:30				
10:15			249		249	22:15			160		160	Peak Volume			970		970				
10:30			238		238	22:30			122		122	Peak Hour Factor			0.879		0.879				
10:45			301		301	22:45			79		79										
11:00			244		244	23:00			116		116	Peak Period	16:00	to	18:00						
11:15			275		275	23:15			84		84	Volume			3045		3045				
11:30			263		263	23:30			56		56	Peak Hour			16:45		16:45				
11:45			297		297	23:45			53		53	Peak Volume			1622		1622				
TOTALS	0	0	5864	0	5864	TOTALS	0	0	13692	0	13692	Peak Hour Factor			0.954		0.954				
SPLIT %	0%	0%	100%	0%	30%	SPLIT %	0%	0%	100%	0%	70%										



National Data & Surveying Services

Intersection Turning Movement Count

Location: Morena Blvd NB Ramps & Balboa Ave
City: San Diego
Control: 1-Way Yelid(NB)

Project ID: 25-040116-002
Date: 7/8/2025

Data - Totals

NS/EW Streets:	Morena Blvd NB Ramps				Morena Blvd NB Ramps				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	0 NT	1 NR	0 NU	0 SL	0 ST	0 SR	0 SU	0 EL	2 ET	1 ER	0 EU	0 WL	0 WT	0 WR	0 WU	
7:00 AM	0	0	18	0	0	0	0	0	0	149	128	0	0	0	0	0	295
7:15 AM	0	0	30	0	0	0	0	0	0	169	115	0	0	0	0	0	314
7:30 AM	0	0	29	0	0	0	0	0	0	206	121	0	0	0	0	0	356
7:45 AM	0	0	36	0	0	0	0	0	0	240	133	0	0	0	0	0	409
8:00 AM	0	0	33	0	0	0	0	0	0	225	136	0	0	0	0	0	394
8:15 AM	0	0	46	6	0	0	0	0	0	155	172	0	0	0	0	0	379
8:30 AM	0	0	32	1	0	0	0	0	0	179	161	0	0	0	0	0	373
8:45 AM	0	0	52	1	0	0	0	0	0	137	210	0	0	0	0	0	400
9:00 AM	0	0	37	0	0	0	0	0	0	165	210	0	0	0	0	0	412
9:15 AM	0	0	34	0	0	0	0	0	0	183	172	0	0	0	0	0	389
9:30 AM	0	0	55	1	0	0	0	0	0	172	178	0	0	0	0	0	406
9:45 AM	0	0	38	2	0	0	0	0	0	196	224	0	0	0	0	0	460
TOTAL VOLUMES :	NL 0	NT 0	NR 440	NU 11	SL 0	ST 0	SR 0	SU 0	EL 0	ET 2176	ER 1960	EU 0	WL 0	WT 0	WR 0	WU 0	TOTAL 4587
APPROACH %'s :	0.00%	0.00%	97.56%	2.44%					0.00%	52.61%	47.39%	0.00%					
PEAK HR :	09:00 AM - 10:00 AM																TOTAL
PEAK HR VOL :	0	0	164	3					0	716	784	0	0	0	0	0	1667
PEAK HR FACTOR :	0.000	0.000	0.745	0.375	0.000	0.000	0.000	0.000	0.000	0.913	0.875	0.000	0.000	0.000	0.000	0.000	0.906
	0.746								0.893								

NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	0 NT	1 NR	0 NU	0 SL	0 ST	0 SR	0 SU	0 EL	2 ET	1 ER	0 EU	0 WL	0 WT	0 WR	0 WU	
10:00 AM	0	0	48	0	0	0	0	0	0	192	202	0	0	0	0	0	442
10:15 AM	0	0	39	0	0	0	0	0	0	210	187	0	0	0	0	0	436
10:30 AM	0	0	45	0	0	0	0	0	0	193	178	0	0	0	0	0	416
10:45 AM	0	0	58	0	0	0	0	0	0	243	197	0	0	0	0	0	498
TOTAL VOLUMES :	NL 0	NT 0	NR 190	NU 0	SL 0	ST 0	SR 0	SU 0	EL 0	ET 838	ER 764	EU 0	WL 0	WT 0	WR 0	WU 0	TOTAL 1792
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%					0.00%	52.31%	47.69%	0.00%					
PEAK HR :	10:00 AM - 11:00 AM																TOTAL
PEAK HR VOL :	0	0	190	0					0	838	764	0	0	0	0	0	1792
PEAK HR FACTOR :	0.000	0.000	0.819	0.000	0.000	0.000	0.000	0.000	0.000	0.862	0.946	0.000	0.000	0.000	0.000	0.000	0.900
	0.819								0.910								

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	0 NT	1 NR	0 NU	0 SL	0 ST	0 SR	0 SU	0 EL	2 ET	1 ER	0 EU	0 WL	0 WT	0 WR	0 WU	
2:00 PM	0	0	63	0	0	0	0	0	0	279	207	0	0	0	0	0	549
2:15 PM	0	0	45	0	0	0	0	0	0	273	192	0	0	0	0	0	510
2:30 PM	0	0	66	0	0	0	0	0	0	318	191	0	0	0	0	0	575
2:45 PM	0	0	59	0	0	0	0	0	0	326	181	0	0	0	0	0	566
3:00 PM	0	0	68	0	0	0	0	0	0	289	181	0	0	0	0	0	538
3:15 PM	0	0	74	0	0	0	0	0	0	307	225	0	0	0	0	0	606
3:30 PM	0	0	82	0	0	0	0	0	0	347	221	0	0	0	0	0	650
3:45 PM	0	0	62	1	0	0	0	0	0	336	210	0	0	0	0	0	609
4:00 PM	0	0	62	0	0	0	0	0	0	276	211	0	0	0	0	0	549
4:15 PM	0	0	68	0	0	0	0	0	0	278	244	0	0	0	0	0	590
4:30 PM	0	0	61	0	0	0	0	0	0	299	251	0	0	0	0	0	611
4:45 PM	0	0	52	0	0	0	0	0	0	329	237	0	0	0	0	0	618
5:00 PM	0	0	71	0	0	0	0	0	0	354	207	0	0	0	0	0	632
5:15 PM	0	0	50	0	0	0	0	0	0	350	246	0	0	0	0	0	646
5:30 PM	0	0	64	0	0	0	0	0	0	352	218	0	0	0	0	0	634
5:45 PM	0	0	44	0	0	0	0	0	0	335	173	0	0	0	0	0	552
TOTAL VOLUMES :	NL 0	NT 0	NR 991	NU 1	SL 0	ST 0	SR 0	SU 0	EL 0	ET 5048	ER 3395	EU 0	WL 0	WT 0	WR 0	WU 0	TOTAL 9435
APPROACH %'s :	0.00%	0.00%	99.90%	0.10%					0.00%	59.79%	40.21%	0.00%					
PEAK HR :	04:45 PM - 05:45 PM																TOTAL
PEAK HR VOL :	0	0	237	0					0	1385	908	0	0	0	0	0	2530
PEAK HR FACTOR :	0.000	0.000	0.835	0.000	0.000	0.000	0.000	0.000	0.000	0.978	0.923	0.000	0.000	0.000	0.000	0.000	0.979
	0.835								0.962								

National Data & Surveying Services

Location: Morena Blvd NB Ramps & Balboa Ave
City: San Diego

Project ID: 25-040116-002
Date: 7/8/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Morena Blvd NB Ramps		Morena Blvd NB Ramps		Balboa Ave		Balboa Ave		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	
7:00 AM	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	1	1	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	1	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	1	0	0	0	0	1
9:00 AM	0	0	0	1	0	0	0	0	1
9:15 AM	0	0	0	1	0	0	0	0	1
9:30 AM	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	1	0	0	0	0	1
TOTAL VOLUMES : APPROACH %'s :	EB 0	WB 0	EB 2	WB 6	NB 0	SB 0	NB 0	SB 0	TOTAL 8
PEAK HR :	09:00 AM - 10:00 AM								TOTAL
PEAK HR VOL :	0	0	0	3	0	0	0	0	3
PEAK HR FACTOR :			0.750						0.750

NOON	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	
10:00 AM	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	0	0	0	0	0	0	0
10:30 AM	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	1	0	0	0	0	0	1
TOTAL VOLUMES :	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
APPROACH %'s :	0	0	1	0	0	0	0	0	1
PEAK HR :	10:00 AM - 11:00 AM								TOTAL
PEAK HR VOL :	0	0	1	0	0	0	0	0	1
PEAK HR FACTOR :			0.250	0.250					0.250

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	
2:00 PM	0	0	1	0	0	0	0	0	1
2:15 PM	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	1	0	0	0	0	0	1
2:45 PM	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	1	1	0	0	0	0	2
3:30 PM	0	0	0	1	0	0	0	0	1
3:45 PM	0	0	0	1	0	0	0	0	1
4:00 PM	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	4	0	0	0	0	4
5:30 PM	0	0	1	0	0	0	0	0	1
5:45 PM	0	0	0	1	0	0	0	0	1
TOTAL VOLUMES : APPROACH %'s :	EB 0	WB 0	EB 4 33.33%	WB 8 66.67%	NB 0	SB 0	NB 0	SB 0	TOTAL 12
PEAK HR :	04:45 PM - 05:45 PM								TOTAL
PEAK HR VOL :	0		1		0		0		5
PEAK HR FACTOR :			0.250						0.313

National Data & Surveying Services

Intersection Turning Movement Count

Location: Morena Blvd NB Ramps & Balboa Ave
City: San Diego
Control: 1-Way Yield(NB)

Project ID: 25-040116-002
Date: 7/8/2025

Data - Bikes

NS/EW Streets:	Morena Blvd NB Ramps				Morena Blvd NB Ramps				Balboa Ave				Balboa Ave				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	0 NT	1 NR	0 NU	0 SL	0 ST	0 SR	0 SU	0 EL	2 ET	1 ER	0 EU	0 WL	0 WT	0 WR	0 WU	
7:00 AM	0	0	0	0	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	0	0	0	0
7:30 AM	0	0	0	0	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	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	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	0	0	0	0
8:45 AM	0	0	0	0	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	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
9:30 AM	0	0	0	0	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	2	0	0	0	0	0	0	2
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	5
APPROACH %'s :									0.00%	80.00%	20.00%	0.00%					
PEAK HR :	09:00 AM - 10:00 AM				0	0	0	0	0	3	1	0	0	0	0	0	4
PEAK HR VOL :	0	0	0	0	0	0	0	0	0.000	0.375	0.250	0.000	0.000	0.000	0.000	0.000	0.500
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.000	0.000	0.500

NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	0 NT	1 NR	0 NU	0 SL	0 ST	0 SR	0 SU	0 EL	2 ET	1 ER	0 EU	0 WL	0 WT	0 WR	0 WU	
10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10:30 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES :	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2
APPROACH %'s :	0.00%	0.00%	100.00%	0.00%					0.00%	100.00%	0.00%	0.00%					
PEAK HR :	10:00 AM - 11:00 AM				0	0	0	0	0	1	0	0	0	0	0	0	2
PEAK HR VOL :	0	0	1	0	0	0	0	0	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.500
PEAK HR FACTOR :	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.500

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	0 NT	1 NR	0 NU	0 SL	0 ST	0 SR	0 SU	0 EL	2 ET	1 ER	0 EU	0 WL	0 WT	0 WR	0 WU	
2:00 PM	0	0	0	0	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	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	4
2:45 PM	0	0	0	0	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	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	5
4:45 PM	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5:15 PM	0	0	1	0	0	0	0	0	0	2	0	0	0	2	0	0	5
5:30 PM	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	3
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL VOLUMES :	3	0	4	0	0	0	0	0	0	8	5	0	0	10	0	0	30
APPROACH %'s :	42.86%	0.00%	57.14%	0.00%					0.00%	61.54%	38.46%	0.00%	0.00%	100.00%	0.00%	0.00%	
PEAK HR :	04:45 PM - 05:45 PM				0	0	0	0	0	6	1	0	0	2	0	0	11
PEAK HR VOL :	0	0	2	0	0	0	0	0	0.000	0.750	0.250	0.000	0.000	0.250	0.000	0.000	0.550
PEAK HR FACTOR :	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.250	0.000	0.000	0.250	0.000	0.000	0.550

VOLUME**Morena Blvd & Jutland Dr**

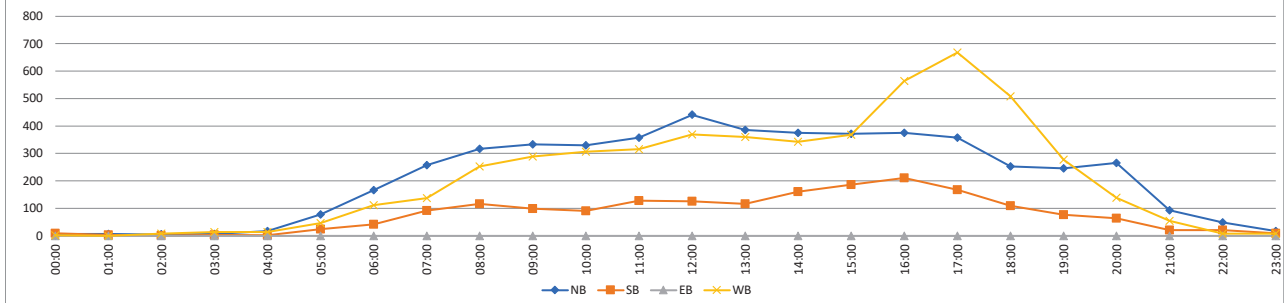
Day: Tuesday

Date: 7/8/2025

City: San Diego

Project #: CA25_040117_001

DAILY TOTALS						NB		SB		EB		WB		Total		DAILY TOTALS					
						5,107		1,877		0		5,159		12,143							
15-Minutes Interval												Hourly Intervals									
TIME	NB	SB	EB	WB	TOTAL	TIME	NB	SB	EB	WB	TOTAL	TIME		NB	SB	EB	WB	TOTAL			
0:00	3	3		2	8	12:00	100	43		106	249	00:00	01:00	6	9		2	17			
0:15	0	1		0	1	12:15	110	31		99	240	01:00	02:00	7	3		0	10			
0:30	3	0		0	3	12:30	117	31		79	227	02:00	03:00	5	1		8	14			
0:45	0	5		0	5	12:45	114	21		85	220	03:00	04:00	6	3		14	23			
1:00	2	0		0	2	13:00	97	25		104	226	04:00	05:00	17	2		13	32			
1:15	4	3		0	7	13:15	89	28		87	204	05:00	06:00	78	24		46	148			
1:30	1	0		0	1	13:30	103	37		76	216	06:00	07:00	166	42		111	319			
1:45	0	0		0	0	13:45	97	26		93	216	07:00	08:00	257	92		137	486			
2:00	2	0		2	4	14:00	85	43		76	204	08:00	09:00	317	116		253	686			
2:15	2	0		0	2	14:15	77	32		86	195	09:00	10:00	333	99		289	721			
2:30	0	0		2	2	14:30	105	35		98	238	10:00	11:00	330	91		306	727			
2:45	1	1		4	6	14:45	108	50		82	240	11:00	12:00	357	128		316	801			
3:00	2	2		0	4	15:00	95	54		84	233	12:00	13:00	441	126		369	936			
3:15	1	1		0	2	15:15	95	39		95	229	13:00	14:00	386	116		360	862			
3:30	2	0		3	5	15:30	98	54		91	243	14:00	15:00	375	160		342	877			
3:45	1	0		11	12	15:45	83	39		98	220	15:00	16:00	371	186		368	925			
4:00	0	0		0	0	16:00	91	44		109	244	16:00	17:00	375	211		564	1150			
4:15	5	0		3	8	16:15	90	58		157	305	17:00	18:00	358	168		668	1194			
4:30	6	0		3	9	16:30	101	64		149	314	18:00	19:00	253	109		508	870			
4:45	6	2		7	15	16:45	93	45		149	287	19:00	20:00	246	77		277	600			
5:00	9	6		2	17	17:00	80	47		165	292	20:00	21:00	265	64		138	467			
5:15	17	4		5	26	17:15	114	42		177	333	21:00	22:00	93	20		54	167			
5:30	16	4		12	32	17:30	89	52		190	331	22:00	23:00	48	21		8	77			
5:45	36	10		27	73	17:45	75	27		136	238	23:00	00:00	17	9		8	34			
6:00	33	9		7	49	18:00	70	36		166	272	STATISTICS									
6:15	36	9		32	77	18:15	68	28		147	243			NB	SB	EB	WB	TOTAL			
6:30	46	11		34	91	18:30	52	23		102	177	Peak Period	00:00	to		12:00					
6:45	51	13		38	102	18:45	63	22		93	178	Volume	1879	610		1495	3984				
7:00	51	19		27	97	19:00	61	24		67	152	Peak Hour	8:45	11:00		10:45	10:45				
7:15	76	18		32	126	19:15	63	13		69	145	Peak Volume	361	128		333	805				
7:30	57	28		36	121	19:30	63	18		71	152	Peak Hour Factor	0.903	0.821		0.858	0.954				
7:45	73	27		42	142	19:45	59	22		70	151	Peak Period	12:00	to		00:00					
8:00	59	30		51	140	20:00	71	21		49	141	Volume	3228	1267		3664	8159				
8:15	83	22		57	162	20:15	67	11		45	123	Peak Hour	12:00	16:15		16:45	16:45				
8:30	75	32		63	170	20:30	69	14		18	101	Peak Volume	441	214		681	1243				
8:45	100	32		82	214	20:45	58	18		26	102	Peak Hour Factor	0.942	0.836		0.896	0.933				
9:00	88	21		59	168	21:00	29	7		12	48	Peak Period	07:00	to		09:00					
9:15	95	25		84	204	21:15	23	3		12	38	Volume	574	208		390	1172				
9:30	78	34		68	180	21:30	26	4		23	53	Peak Hour	8:00	8:00		8:00	8:00				
9:45	72	19		78	169	21:45	15	6		7	28	Peak Volume	317	116		253	686				
10:00	79	21		65	165	22:00	25	10		3	38	Peak Hour Factor	0.793	0.906		0.771	0.801				
10:15	79	17		92	188	22:15	12	7		2	21	Peak Period	16:00	to		18:00					
10:30	81	29		59	169	22:30	3	2		0	5	Volume	733	379		1232	2344				
10:45	91	24		90	205	22:45	8	2		3	13	Peak Hour	16:30	16:15		16:45	16:45				
11:00	88	32		74	194	23:00	6	7		3	16	Peak Volume	388	214		681	1243				
11:15	78	20		97	195	23:15	5	1		1	7	Peak Hour Factor	0.851	0.836		0.896	0.933				
11:30	100	39		72	211	23:30	3	1		3	7										
11:45	91	37		73	201	23:45	3	0		1	4										
TOTALS	1879	610	0	1495	3984	TOTALS	3228	1267	0	3664	8159										
SPLIT %	47%	15%	0%	38%	33%	SPLIT %	40%	16%	0%	45%	67%										



National Data & Surveying Services

Intersection Turning Movement Count

Location: Morena Blvd & Jutland Dr/4747 Morena Blvd Dwy
City: San Diego
Control: 4-Way Stop

Project ID: 25-040116-001
Date: 7/8/2025

Data - Totals

NS/EW Streets:	Morena Blvd				Morena Blvd				Jutland Dr/4747 Morena Blvd Dwy				Jutland Dr/4747 Morena Blvd Dwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	1 NT	1 NR	0 NU	0.5 SL	1.5 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	1 WL	0 WT	1 WR	0 WU	
7:00 AM	1	26	24	0	1	18	0	0	0	0	0	0	26	0	1	0	97
7:15 AM	1	49	26	0	3	15	0	0	0	0	1	0	30	0	2	0	127
7:30 AM	1	32	24	0	3	25	0	0	0	0	0	0	29	0	7	0	121
7:45 AM	1	36	36	0	4	23	0	0	0	0	0	0	37	0	5	0	142
8:00 AM	2	22	35	0	1	29	0	0	0	0	0	0	46	0	4	1	140
8:15 AM	0	35	48	0	2	20	0	0	0	0	1	0	55	0	2	0	163
8:30 AM	1	25	48	1	4	28	0	0	0	0	0	0	58	0	5	0	170
8:45 AM	1	44	55	0	1	31	0	0	0	0	0	0	72	0	10	0	214
9:00 AM	0	38	50	0	1	20	0	0	0	0	0	0	52	0	7	0	168
9:15 AM	0	40	55	0	3	22	0	0	0	0	0	0	79	0	5	0	204
9:30 AM	1	30	47	0	2	32	0	0	0	0	0	0	65	0	3	0	180
9:45 AM	1	20	51	0	0	19	0	0	0	0	0	0	72	0	5	1	169
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	10	397	499	1	25	282	0	0	0	0	2	0	621	0	56	2	1895
PEAK HR :	08:45 AM - 09:45 AM				8.14%	91.86%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	91.46%	0.00%	8.25%	0.29%	TOTAL
PEAK HR VOL :	2	152	207	0	7	105	0	0	0	0	0	0	268	0	25	0	766
PEAK HR FACTOR :	0.500	0.864	0.941	0.000	0.583	0.820	0.000	0.000	0.000	0.000	0.000	0.000	0.848	0.000	0.625	0.000	0.895
	0.903				0.824								0.872				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	1 NT	1 NR	0 NU	0.5 SL	1.5 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	1 WL	0 WT	1 WR	0 WU	
10:00 AM	1	27	52	0	4	17	0	0	0	0	1	0	60	0	5	0	166
10:15 AM	1	27	51	0	2	15	0	0	0	0	1	0	89	0	3	0	188
10:30 AM	0	24	57	0	1	28	0	0	0	0	0	0	55	0	4	0	169
10:45 AM	1	24	66	0	1	23	0	0	0	0	1	0	86	0	4	0	206
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	2	102	226	0	8	83	0	0	0	0	2	0	290	0	16	0	729
PEAK HR :	10:00 AM - 11:00 AM				8.79%	91.21%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	94.77%	0.00%	5.23%	0.00%	TOTAL
PEAK HR VOL :	2	102	226	0	8	83	0	0	0	0	2	0	290	0	16	0	729
PEAK HR FACTOR :	0.500	0.944	0.856	0.000	0.500	0.741	0.000	0.000	0.000	0.000	0.500	0.000	0.815	0.000	0.800	0.000	0.885
	0.907				0.784				0.500				0.832				
PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	1 NT	1 NR	0 NU	0.5 SL	1.5 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	1 WL	0 WT	1 WR	0 WU	
2:00 PM	1	24	60	0	3	40	0	0	0	0	0	0	73	1	2	0	204
2:15 PM	0	23	54	0	6	26	0	0	0	0	0	0	81	0	4	1	195
2:30 PM	1	35	69	0	5	30	0	0	0	0	0	0	95	0	3	0	238
2:45 PM	0	31	77	0	9	41	0	0	0	0	0	0	78	0	4	0	240
3:00 PM	1	31	63	0	2	52	0	0	0	0	0	0	79	0	5	0	233
3:15 PM	0	28	65	2	4	35	0	0	0	0	0	0	94	0	1	0	229
3:30 PM	0	33	63	2	6	48	0	0	0	0	0	0	87	0	4	0	243
3:45 PM	0	19	64	0	2	36	1	0	0	0	0	0	97	0	1	0	220
4:00 PM	0	17	72	2	11	33	0	0	0	0	0	0	107	0	2	0	244
4:15 PM	0	26	64	0	8	50	0	0	0	0	0	0	153	0	4	0	305
4:30 PM	0	26	75	0	11	53	0	0	0	1	0	0	146	0	3	0	315
4:45 PM	0	24	69	0	5	40	0	0	0	0	0	0	146	0	3	0	287
5:00 PM	0	22	58	0	5	42	0	0	0	0	0	0	158	0	7	0	292
5:15 PM	0	32	82	0	6	36	0	0	0	0	0	0	175	0	2	0	333
5:30 PM	0	24	65	0	6	46	0	0	0	0	1	0	184	0	6	0	332
5:45 PM	0	24	50	1	5	22	0	0	0	0	0	0	134	0	2	0	238
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	3	419	1050	7	94	630	1	0	0	1	1	0	1887	1	53	1	4148
PEAK HR :	04:45 PM - 05:45 PM				12.97%	86.90%	0.14%	0.00%	0.00%	50.00%	50.00%	0.00%	97.17%	0.05%	2.73%	0.05%	TOTAL
PEAK HR VOL :	0	102	274	0	22	164	0	0	0	0	1	0	663	0	18	0	1244
PEAK HR FACTOR :	0.000	0.797	0.835	0.000	0.917	0.891	0.000	0.000	0.000	0.000	0.250	0.000	0.901	0.000	0.643	0.000	0.934
	0.825				0.894				0.250				0.896				

National Data & Surveying Services
Intersection Turning Movement Count

Location: Morena Blvd & Jutland Dr/4747 Morena Blvd Dwy
City: San Diego

Project ID: 25-040116-001
Date: 7/8/2025

Data - Pedestrians (Crosswalks)

NS/EW Streets:	Morena Blvd		Morena Blvd		Jutland Dr/4747 Morena Blvd Dwy		Jutland Dr/4747 Morena Blvd Dwy		
AM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	
7:00 AM	0	0	0	0	1	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	1	0	0	1
8:00 AM	0	0	0	0	0	1	0	0	1
8:15 AM	0	0	0	0	0	1	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	1	0	0	1
9:00 AM	0	0	0	0	1	0	0	0	1
9:15 AM	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	1	0	0	1
9:45 AM	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES :	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
APPROACH %'s :	0	0	0	0	2	5	0	0	7
					28.57%	71.43%			
PEAK HR :	08:45 AM - 09:45 AM				1	2	0	0	TOTAL
PEAK HR VOL :	0	0	0	0	0.250	0.500	0	0	3
PEAK HR FACTOR :					0.750				0.750

NOON	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	
10:00 AM	0	0	0	0	0	1	0	0	1
10:15 AM	0	0	0	0	0	2	0	0	2
10:30 AM	0	0	0	0	0	0	0	0	0
10:45 AM	0	0	0	0	4	0	0	0	4
TOTAL VOLUMES :	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
APPROACH %'s :	0	0	0	0	4	3	0	0	7
					57.14%	42.86%			
PEAK HR :	10:00 AM - 11:00 AM				4	3	0	0	TOTAL
PEAK HR VOL :	0	0	0	0	0.250	0.375	0	0	7
PEAK HR FACTOR :					0.438				0.438

PM	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG		TOTAL
	EB	WB	EB	WB	NB	SB	NB	SB	
2:00 PM	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	2	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	1	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES :	EB	WB	EB	WB	NB	SB	NB	SB	TOTAL
APPROACH %'s :	0	0	0	0	0	3	0	0	3
					0.00%	100.00%			
PEAK HR :	04:45 PM - 05:45 PM				0	1	0	0	TOTAL
PEAK HR VOL :	0	0	0	0	0	0.250	0	0	1
PEAK HR FACTOR :					0.250				0.250

National Data & Surveying Services

Intersection Turning Movement Count

Location: Morena Blvd & Jutland Dr/4747 Morena Blvd Dwy
City: San Diego
Control: 4-Way Stop

Project ID: 25-040116-001
Date: 7/8/2025

Data - Bikes

NS/EW Streets:	Morena Blvd				Morena Blvd				Jutland Dr/4747 Morena Blvd Dwy				Jutland Dr/4747 Morena Blvd Dwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	1 NT	1 NR	0 NU	0.5 SL	1.5 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	1 WL	0 WT	1 WR	0 WU	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2
9:45 AM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	0	5	1	0	0	1	0	0	0	0	0	0	4	0	0	0	11
PEAK HR :	08:45 AM - 09:45 AM				0.00%	83.33%	16.67%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	5
PEAK HR VOL :	0	4	0	0	0	1	0	0	0	0	0	0	1	0	0	0	5
PEAK HR FACTOR :	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.417
	0.500				0.250				0.250				0.250				
NOON	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	1 NT	1 NR	0 NU	0.5 SL	1.5 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	1 WL	0 WT	1 WR	0 WU	
10:00 AM	0	0	0	0	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	0	0	0	0
10:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
10:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
PEAK HR :	10:00 AM - 11:00 AM				0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	2
PEAK HR VOL :	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
PEAK HR FACTOR :	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
	0.250				0.250				0.250				0.250				
PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				TOTAL
	0 NL	1 NT	1 NR	0 NU	0.5 SL	1.5 ST	0 SR	0 SU	0 EL	1 ET	0 ER	0 EU	1 WL	0 WT	1 WR	0 WU	
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2:30 PM	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2
3:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
3:30 PM	0	0	0	0	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	0	0	0	0
4:00 PM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
4:45 PM	0	0	0	0	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	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5:30 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES :	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
APPROACH %'s :	0	3	1	0	0	5	0	0	0	0	0	0	3	0	1	0	13
PEAK HR :	04:45 PM - 05:45 PM				0.00%	75.00%	25.00%	0.00%	0.00%	100.00%	0.00%	0.00%	75.00%	0.00%	25.00%	0.00%	3
PEAK HR VOL :	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	3
PEAK HR FACTOR :	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.375
	0.250				0.250				0.250				0.250				

**Attachment B – CA-MUTCD Traffic Signal Warrant
Excerpts, Worksheets, and Calculations**

Figure 4C-101(CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 07/08/2025

CALC MW DATE 1/30/2026

CHK AR DATE 1/30/2026

DIST _____ CO _____ RTE _____ PM _____

Major St: Morena Blvd Critical Approach Speed 45 (speed limit) mph

Minor St: Jutland Dr Critical Approach Speed _____ mph

Speed limit or critical speed on major street traffic > 40 mph..... ☒ } **RURAL (R)**

In built up area of isolated community of < 10,000 population..... ☐ } **URBAN (U)**

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☒ NO ☐
(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume **100% SATISFIED** YES ☒ NO ☐
80% SATISFIED YES ☐ NO ☐

APPROACH LANES	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				10:00 AM	11:00 AM	12:00 Noon	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	Hour
	U	R	U	R									
	1		2 or More										
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)	421	485	567	502	535	557	586	526	
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	306	316	369	360	342	368	564	668	

Condition B - Interruption of Continuous Traffic **100% SATISFIED** YES ☐ NO ☒
80% SATISFIED YES ☐ NO ☒

APPROACH LANES	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)				10:00 AM	11:00 AM	12:00 Noon	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	Hour
	U	R	U	R									
	1		2 or More										
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)	421	485	567	502	535	557	586	526	
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	306	316	369	360	342	368	564	668	

Combination of Conditions A & B SATISFIED YES ☐ NO ☒

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☐ No ☒
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☐ No ☐

Major-street and minor-street volumes shall be for the same 8 hours for each condition; however, the 8 hours satisfied in Condition A shall not be required to be the same 8 hours satisfied in Condition B.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101(CA). Traffic Signal Warrants Worksheet (Sheet of 5)

WARRANT - Four Hour Vehicular Volume

SATISFIED YES ☒ NO ☐

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More	2:45 PM	3:45 PM	4:45 PM	5:45 PM	Hour
Both Approaches - Major Street		☒	593	570	562	379	
Higher Approach - Minor Street		☒	352	513	681	551	

All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes ☐	No ☐
<u>OR</u> , All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes ☒	No ☐

**WARRANT - One Hour
(Part A or Part B must be satisfied)**

SATISFIED YES ☒ NO ☐

PART A

SATISFIED YES ☐ NO ☐

(All parts 1 and 2 below must be satisfied for the same one hour for any four consecutive 15-minute periods)

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; <u>AND</u>	Yes ☐	No ☐
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>	Yes ☒	No ☐
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes ☒	No ☐

PART B

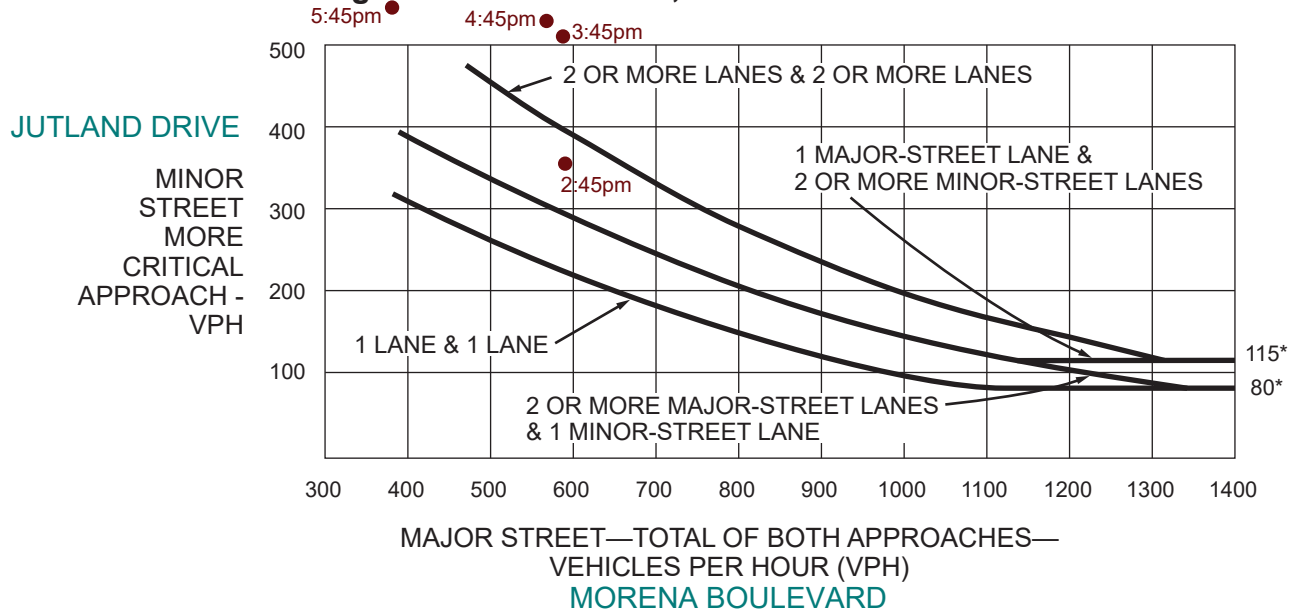
SATISFIED YES ☒ NO ☐

APPROACH LANES	One	2 or More	4:45 PM	Hour
Both Approaches - Major Street		☒	562	
Higher Approach - Minor Street		☒	681	

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes ☒	No ☐
<u>OR</u> , The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes ☒	No ☐

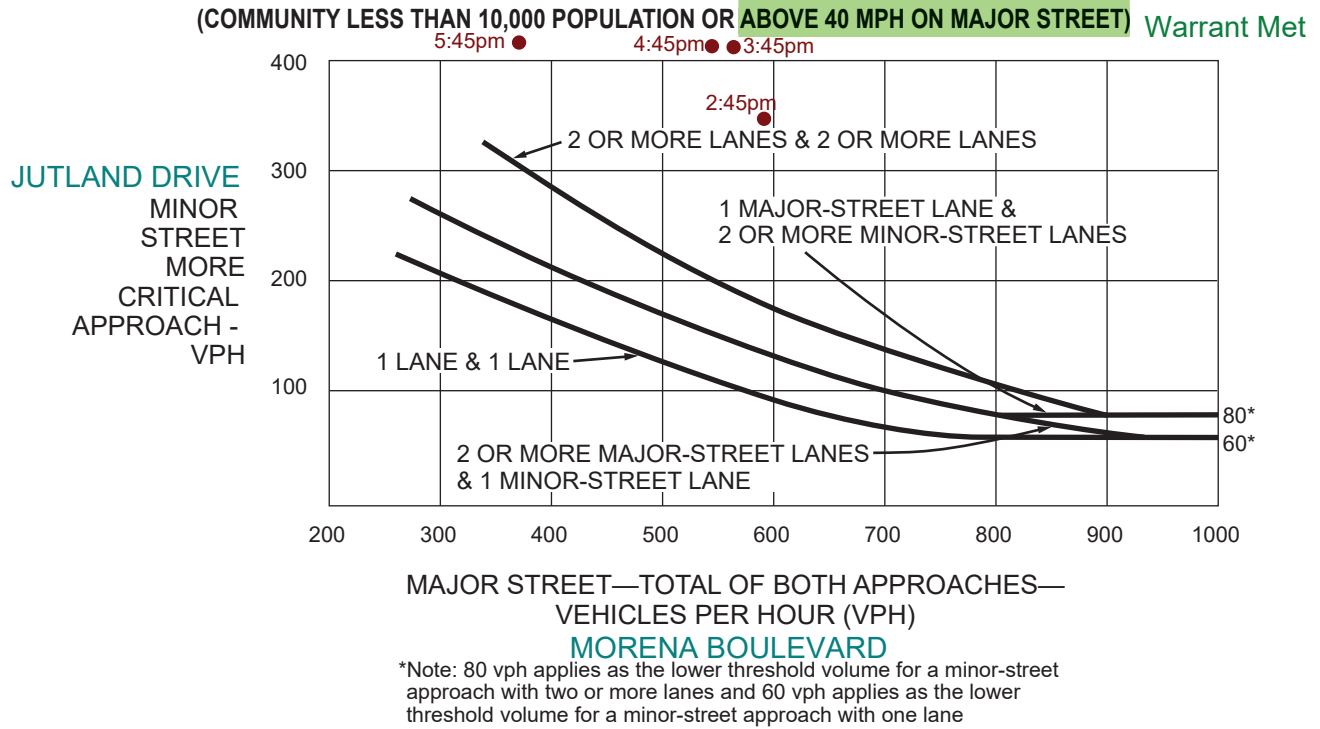
The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume Warrant Not Met



*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

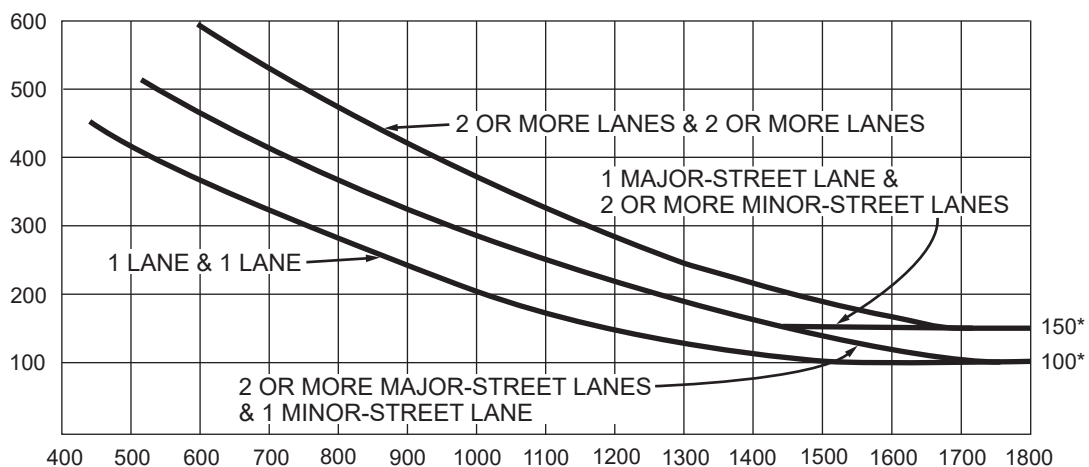


4:45pm ● **Figure 4C-3. Warrant 3, Peak Hour**

Warrant Met

JUTLAND DRIVE

MINOR
STREET
MORE
CRITICAL
APPROACH -
VPH



MAJOR STREET—TOTAL OF BOTH APPROACHES—
VEHICLES PER HOUR (VPH)

MORENA BOULEVARD

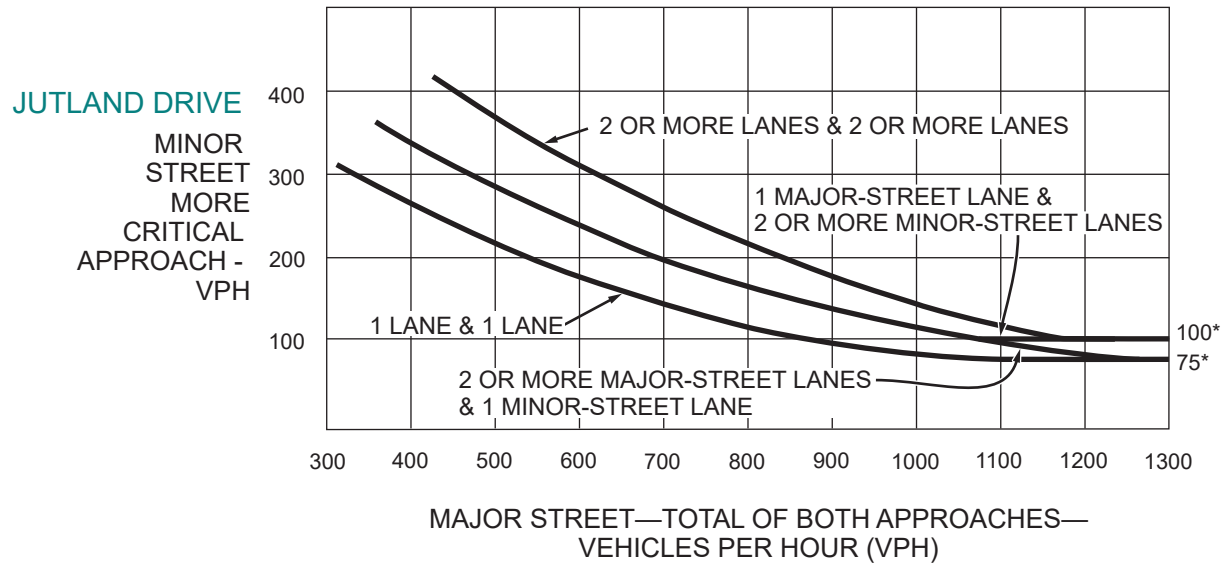
*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

Warrant Met

4:45pm ●

(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet of 5)

WARRANT - Pedestrian Volume
(arts 1 and Must Be Satisfied)

SATISFIED YES ☐ NO ☒

art 1 (arts A or B must be satisfied)

Hours --> 10:00 3:00 4:00 5:00

A. Vehicles per hour for any 4 hours	421	557	586	526
Pedestrians per hour for any 4 hours	7	0	2	1

Figure C- or Figure C-8
SATISFIED YES ☐ NO ☒

Hours --> 4:45 5:00 5:15 5:30

B. Vehicles per hour for any 1 hour	138	127	156	141
Pedestrians per hour for any 1 hour	0	0	1	0

Figure C- or Figure C-8
SATISFIED YES ☐ NO ☒

art

SATISFIED YES ☐ NO ☒

<u>AND</u> , The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☐ No ☐
<u>OR</u> , The proposed traffic signal will not restrict progressive traffic flow along the major street.	Yes ☐ No ☐

WARRANT - School Crossing
(arts A and B Must Be Satisfied)

Warrant Not Applicable

SATISFIED YES ☐ NO ☒

art A

ap Minutes and of Children

SATISFIED YES ☐ NO ☐

aps vs Minutes	Minutes Children Using Crossing	
	Number of Adequate aps	
School Age Pedestrians Crossing Street hr		

Hour

aps < Minutes YES ☐ NO ☐

AND Children > 20 hr YES ☐ NO ☐

<u>AND</u> , Consideration has been given to less restrictive remedial measures.	Yes ☐ No ☐
--	--

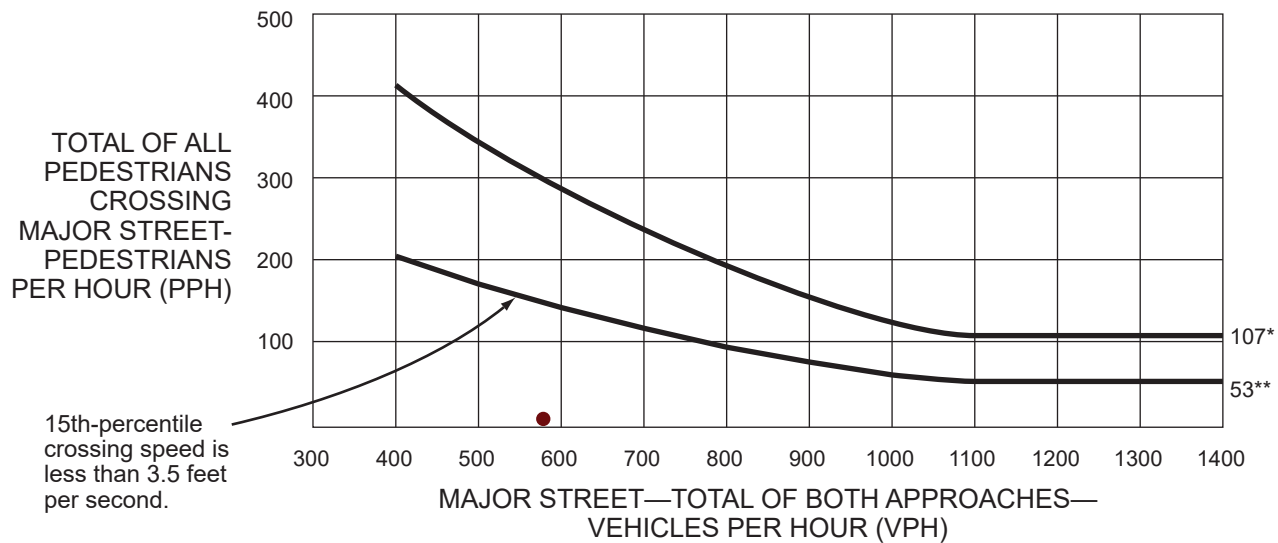
art B

SATISFIED YES ☐ NO ☐

The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☐ No ☐
<u>OR</u> , The proposed signal will not restrict the progressive movement of traffic.	Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

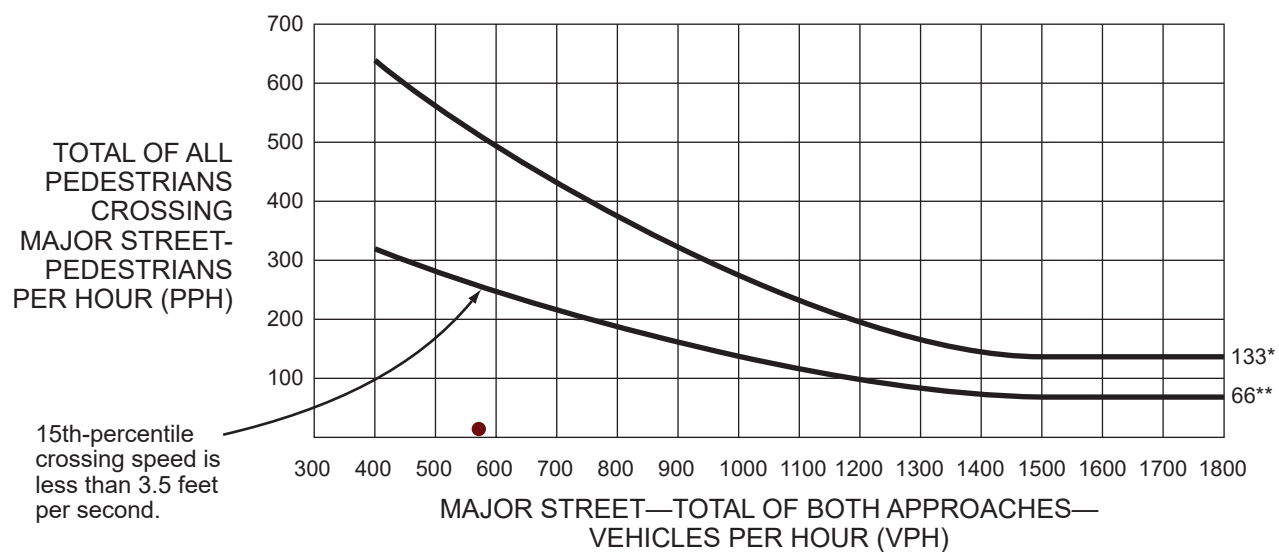
Figure 4C-5. Warrant 4, Pedestrian Four-Hour Volume **Warrant Not Met**



* 107 pph applies as the lower threshold volume

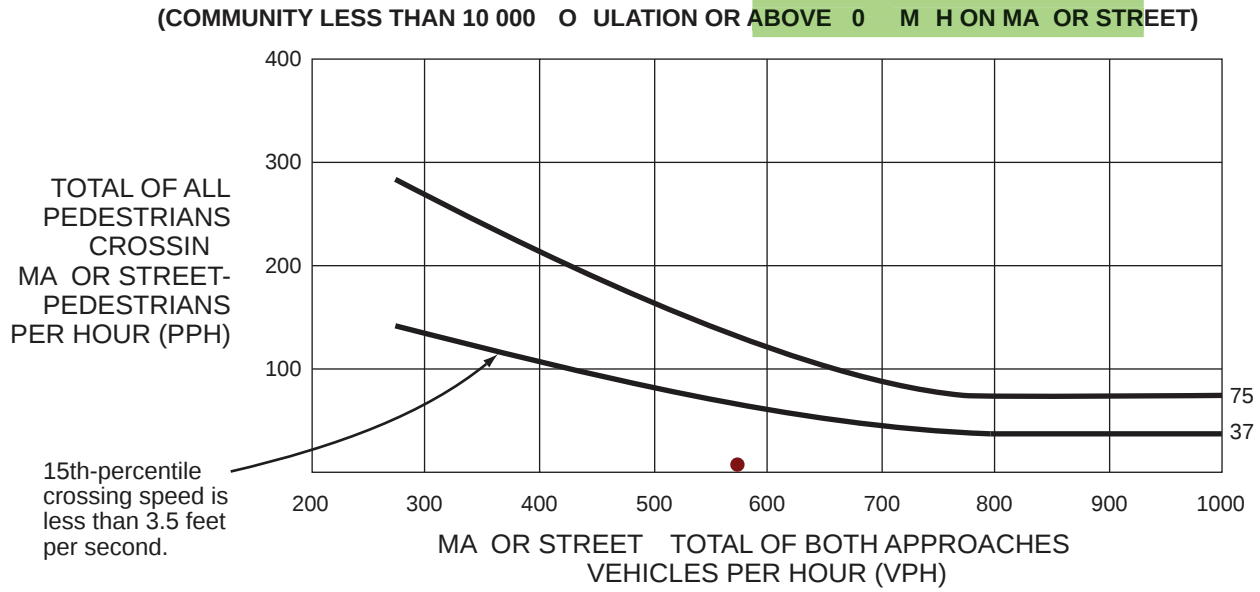
** 53 pph applies as the lower threshold volume if the 15th-percentile crossing speed is less than 3.5 feet per second

Figure 4C-6. Warrant 4, Pedestrian Peak Hour **Warrant Not Met**



- * 133 pph applies as the lower threshold volume
- ** 66 pph applies as the lower threshold volume if the 15th-percentile crossing speed is less than 3.5 feet per second

Figure C- Warrant edestrian Four-Hour Volume (0% Factor) Warrant Not Met

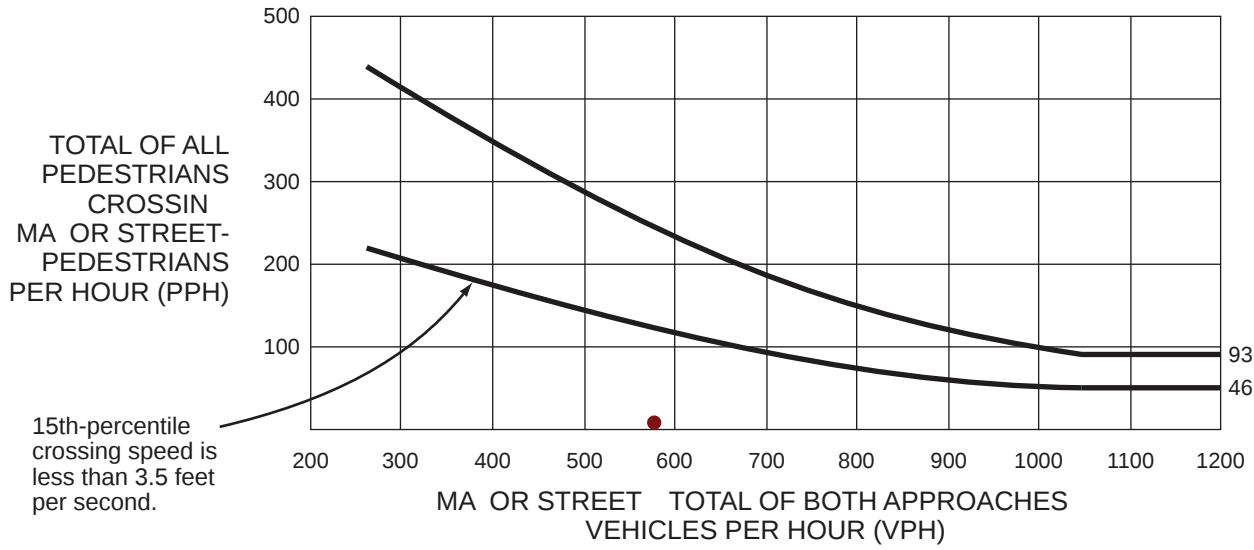


75 pph applies as the lower threshold volume
37 pph applies as the lower threshold volume if
the 15th-percentile crossing speed is less than
3.5 feet per second

[Refer to FHWA's List of Known Errors for error in the parenthesis below the figure title. Refer to Section 1A.04 for more details.](#)

Figure C-8 Warrant for Pedestrian Clearance Hour (0% Factor)

(COMMUNITY LESS THAN 10 000 POPULATION OR ABOVE 10 MPH ON MAJOR STREET) **Warrant Not Met**



93 pph applies as the lower threshold volume
46 pph applies as the lower threshold volume if
the 15th-percentile crossing speed is less than
3.5 feet per second

[Refer to FHWA's List of Known Errors for error in the parenthesis below the figure title. Refer to Section 1A.04 for more details.](#)

Figure 4C-101(CA). Traffic Signal Warrants Worksheet (Sheet 4 of 5)

**WARRANT - Coordinated Signal System
(All Parts Must Be Satisfied)**

SATISFIED YES ☐ NO ☒

MINIMUM REQUIREMENTS	DISTANCE TO NEAREST SIGNAL	
≥ 1000 ft	N ft, S ft, E ft, W ft	Yes ☐ No ☐
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals are so far apart that they do not provide the necessary degree of vehicular platooning.		Yes ☐ No ☒
OR, On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.		

**WARRANT - Crash Experience Warrant
(All Parts Must Be Satisfied)**

SATISFIED YES ☐ NO ☒

Fewer than 2 collisions per year reported 2020 - 2025

Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency.		Yes ☐ No ☐
REQUIREMENTS	Number of crashes reported within a 12 month period susceptible to correction by a traffic signal, and involving injury or damage exceeding the requirements for a reportable crash.	Yes ☐ No ☒
5 OR MORE		
REQUIREMENTS	CONDITIONS	✓
ONE CONDITION SATISFIED MINIMUM REPORTED CRASHES	Table 4C-2, Angle crashes and pedestrian crashes	
	OR, Table 4C-2, Fatal-and-injury angle crashes and pedestrian crashes	
	OR, Table 4C-3, Angle crashes and pedestrian crashes	
	OR, Table 4C-3, Fatal-and-injury angle crashes and pedestrian crashes	
ONE CONDITION SATISFIED 80%	Warrant 1, Condition A - Minimum Vehicular Volume	
	OR, Warrant 1, Condition B - Interruption of Continuous Traffic	
	OR, Warrant 4, Pedestrian Volume Condition Ped Vol $\geq 80\%$ of Figure 4C-5 through Figure 4C-8	

**WARRANT 8 - Road a Net or
(All Parts Must Be Satisfied)**

SATISFIED YES ☐ NO ☒

MINIMUM VOLUME REQUIREMENTS	ENTERING VOLUMES - ALL APPROACHES	✓	FULFILLED
1000 Veh Hr	During Typical Week day Peak Hour and has 5-year projected traffic volumes that meet one or more of Warrants 1, 2, and 3 during an average week day.		Yes ☐ No ☐
	OR During Each of Any 5 Hrs. of a Sat. or Sun	Veh Hr	
CHARACTERISTICS OF MAJOR ROUTES		MAJOR ROUTE A	MAJOR ROUTE B
Hwy. System Serving as Principal Network for Through Traffic			
Rural or Suburban Highway Outside Of, Entering, or Traversing a City			
Appears as Major Route on an Official Plan		✓	No
Any Major Route Characteristics Met, Both Streets			Yes ☐ No ☒

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 5 of 5)

Warrant Not Applicable

WARRANT - Intersection Near a grade Crossing
(Both parts A and B Must Be Satisfied)

SATISFIED YES ☐ NO ☒

<u>ART A</u> A grade crossing exists on an approach controlled by a STOP or YIELD sign and the center of the track nearest to the intersection is within 140 feet of the stop line or yield line on the approach. Track Center Line to Limit Line _____ ft	Yes ☐ No ☐
<u>ART B</u> There is one minor street approach lane at the track crossing - During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-9. Major Street - Total of both approaches: _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH AF (Use Tables 4C-2, 3, 4 below to calculate AF) _____ VPH <u>OR</u> There are two or more minor street approach lanes at the track crossing - During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-10. Major Street - Total of both approaches: _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH AF (Use Tables 4C-2, 3, 4 below to calculate AF) _____ VPH	Yes ☐ No ☐

The minor street approach volume may be multiplied by up to three following adjustment factors (AF) as described in Section 4C.10.

- | | |
|--|-----------------------------------|
| 1- Number of Rail Traffic per Day | Adjustment factor from table 4C-2 |
| 2- Percentage of High-Occupancy Buses on Minor Street Approach | Adjustment factor from table 4C-3 |
| 3- Percentage of Tractor-Trailer Trucks on Minor Street Approach | Adjustment factor from table 4C-4 |

NOTE: If no data is available or known, then use AF = 1 (no adjustment)

Figure 4C-101(CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

COUNT DATE 07/08/2025

CALC MW DATE 1/30/2026

CHK AR DATE 1/30/2026

DIST _____ CO _____ RTE _____ PM _____

Major St: Balboa Ave Critical Approach Speed 42 (85th Percentile) mph

Minor St: Morena Blvd NB Ramps Critical Approach Speed _____ mph

Speed limit or critical speed on major street traffic > 40 mph..... ☒ } **RURAL (R)**

In built up area of isolated community of < 10,000 population..... ☐ } **URBAN (U)**

WARRANT 1 - Eight Hour Vehicular Volume SATISFIED YES ☒ NO ☐
(Condition A or Condition B or combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume

100% SATISFIED YES ☒ NO ☐

80% SATISFIED YES ☐ NO ☐

MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)												
	U	R	U	R								
APPROACH LANES	1		2 or More		10:45 AM	11:45 AM	12:45 PM	1:45 PM	2:45 PM	3:45 PM	4:45 PM	5:45 PM
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)	1,719	1,795	1,767	1,919	2,078	2,100	2,295	1,929
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	222	217	258	243	283	254	237	216

Condition B - Interruption of Continuous Traffic

100% SATISFIED YES ☒ NO ☐

80% SATISFIED YES ☐ NO ☐

MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)												
	U	R	U	R								
APPROACH LANES	1		2 or More		10:45 AM	11:45 AM	12:45 PM	1:45 PM	2:45 PM	3:45 PM	4:45 PM	5:45 PM
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)	1,719	1,795	1,767	1,919	2,078	2,100	2,295	1,929
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	222	217	258	243	283	254	237	216

Combination of Conditions A & B

SATISFIED YES ☒ NO ☐

REQUIREMENT	CONDITION	✓	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. MINIMUM VEHICULAR VOLUME		Yes ☒ No ☐
	AND, B. INTERRUPTION OF CONTINUOUS TRAFFIC		
AND, AN ADEQUATE TRIAL OF OTHER ALTERNATIVES THAT COULD CAUSE LESS DELAY AND INCONVENIENCE TO TRAFFIC HAS FAILED TO SOLVE THE TRAFFIC PROBLEMS			Yes ☒ No ☐

Major-street and minor-street volumes shall be for the same 8 hours for each condition; however, the 8 hours satisfied in Condition A shall not be required to be the same 8 hours satisfied in Condition B.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101(CA). Traffic Signal Warrants Worksheet (Sheet of 5)

WARRANT - Four Hour Vehicular Volume

SATISFIED YES ☒ NO ☐

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More	1:45 PM	2:45 PM	3:45 PM	4:45 PM	Hour
Both Approaches - Major Street		☒	1,919	2,078	2,100	2,295	
Higher Approach - Minor Street	☒		243	283	254	237	

All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	Yes ☐	No ☐
<u>OR</u> , All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	Yes ☒	No ☐

**WARRANT - One Hour
(Part A or Part B must be satisfied)**

SATISFIED YES ☒ NO ☐

PART A

SATISFIED YES ☐ NO ☐

(All parts 1 and 2 below must be satisfied for the same one hour for any four consecutive 15-minute periods)

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; <u>AND</u>	Yes ☐	No ☐
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; <u>AND</u>	Yes ☒	No ☐
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches.	Yes ☒	No ☐

PART B

SATISFIED YES ☒ NO ☐

APPROACH LANES	One	2 or More	4:45 PM	Hour
Both Approaches - Major Street		☒	2,295	
Higher Approach - Minor Street	☒		237	

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	Yes ☒	No ☐
<u>OR</u> , The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	Yes ☒	No ☐

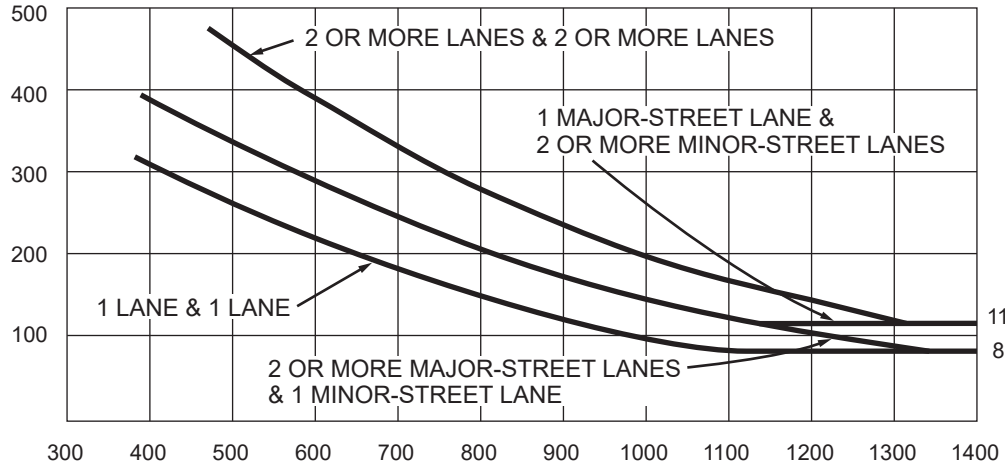
The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

Warrant Met

MORENA BLVD
NB RAMP

MINOR
STREET
MORE
CRITICAL
APPROACH -
VPH



MAJOR STREET—TOTAL OF BOTH APPROACHES—
VEHICLES PER HOUR (VPH)

BALBOA AVENUE

*Note: 115 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor-street approach with one lane

1:45pm

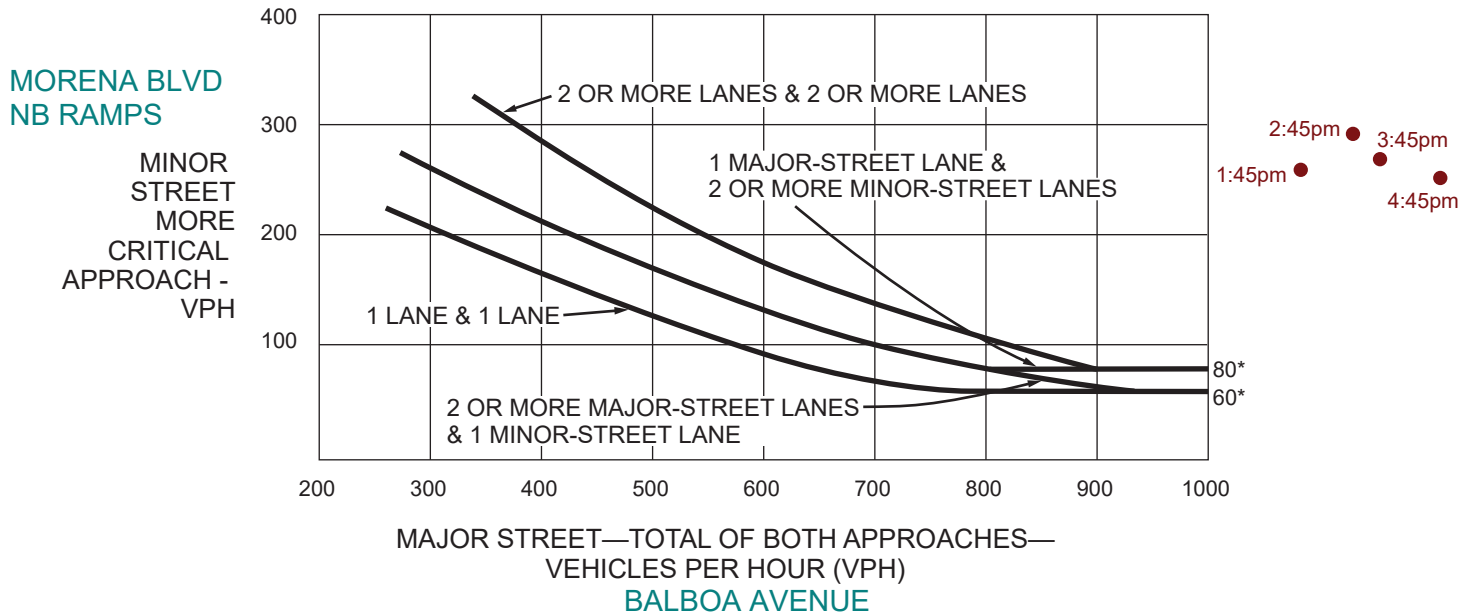
2:45pm

3:45pm

4:45pm

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR **ABOVE 40 MPH ON MAJOR STREET**)



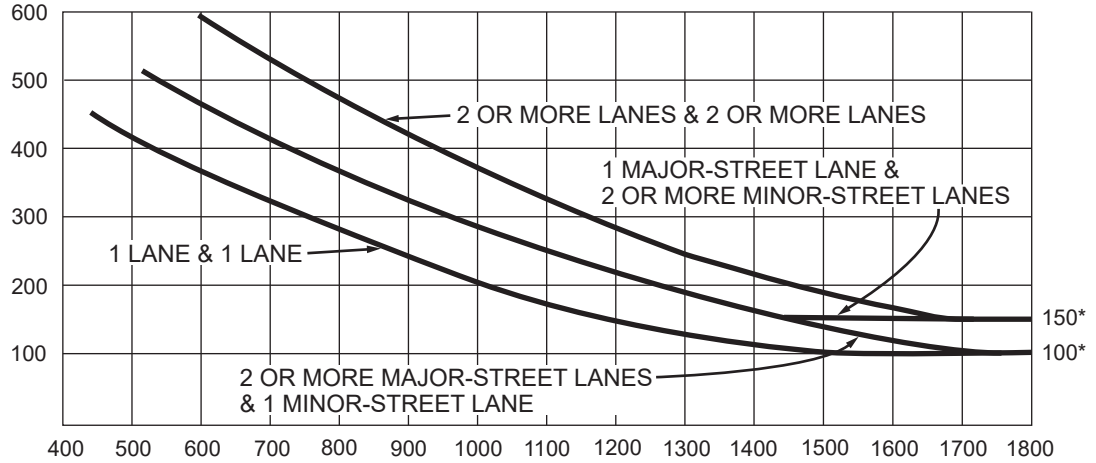
*Note: 80 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor-street approach with one lane

Figure 4C-3. Warrant 3, Peak Hour

Warrant Met

MORENA BLVD
NB RAMP

MINOR
STREET
MORE
CRITICAL
APPROACH -
VPH



MAJOR STREET—TOTAL OF BOTH APPROACHES—
VEHICLES PER HOUR (VPH)

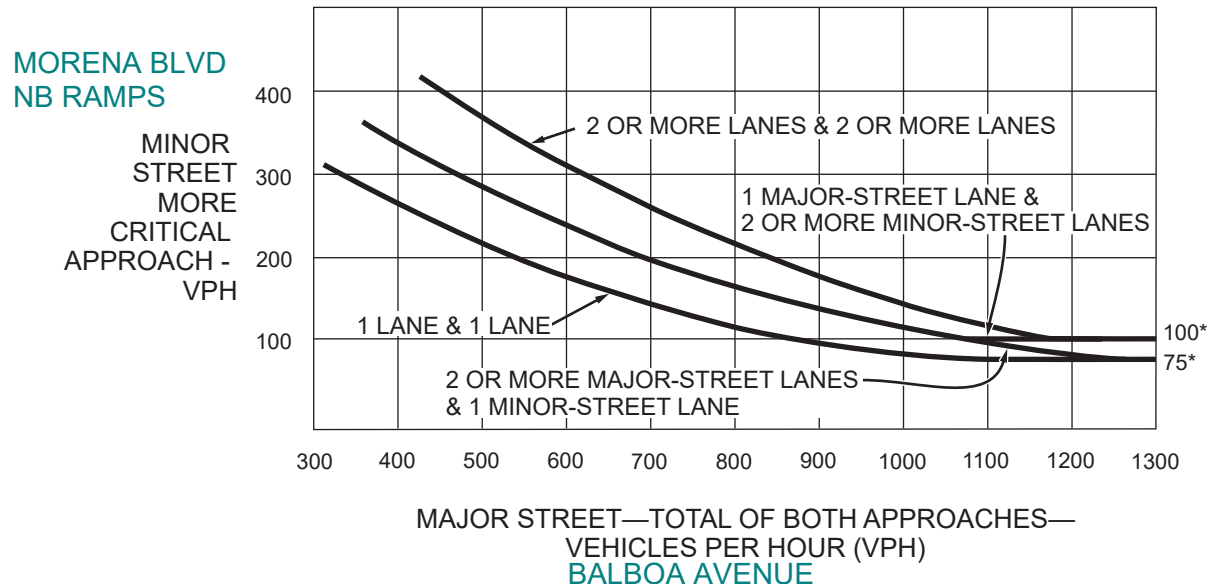
BALBOA AVENUE

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane

4:45pm

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

(COMMUNITY LESS THAN 10,000 POPULATION OR **ABOVE 40 MPH ON MAJOR STREET**)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane

4:45pm

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet of 5)

WARRANT - Pedestrian Volume
(arts 1 and Must Be Satisfied)

SATISFIED YES ☐ NO ☒

art 1 (arts A or B must be satisfied)

Hours -->

		10:00 AM	2:00 PM	3:00 PM	4:45 PM
A.	Vehicles per hour for any 4 hours	1,602	1,967	2,116	2,295
	Pedestrians per hour for any 4 hours	1	2	4	5

Figure C- or Figure C-8
SATISFIED YES ☐ NO ☒

Hours -->

		4:45 PM	5:00 PM	5:15 PM	5:30 PM
B.	Vehicles per hour for any 1 hour	566	561	594	574
	Pedestrians per hour for any 1 hour	0	0	4	1

Figure C- or Figure C-8
SATISFIED YES ☐ NO ☒

art

SATISFIED YES ☐ NO ☒

<u>AND</u> , The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☐ No ☐
<u>OR</u> , The proposed traffic signal will not restrict progressive traffic flow along the major street.	Yes ☐ No ☐

WARRANT - School Crossing
(arts A and B Must Be Satisfied)

Warrant Not Applicable

SATISFIED YES ☐ NO ☒

art A

ap Minutes and of Children

SATISFIED YES ☐ NO ☐

aps vs Minutes	Minutes Children Using Crossing	
	Number of Adequate aps	
School Age Pedestrians Crossing Street	hr	

Hour

aps < Minutes YES ☐ NO ☐

AND Children > 20 hr YES ☐ NO ☐

<u>AND</u> , Consideration has been given to less restrictive remedial measures.	Yes ☐ No ☐
--	--

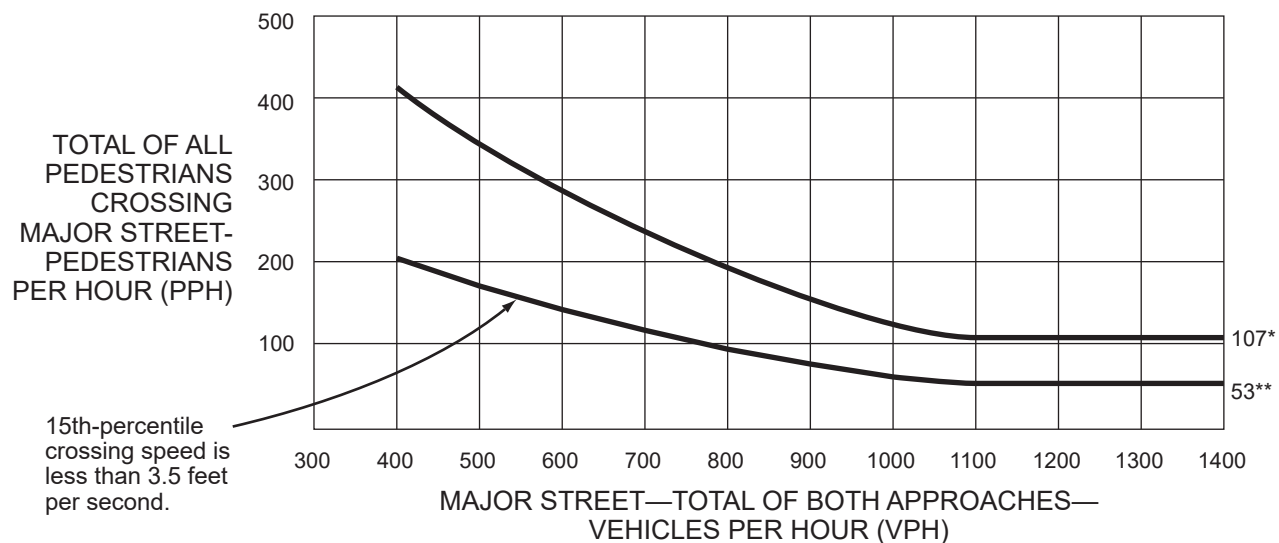
art B

SATISFIED YES ☐ NO ☐

The distance to the nearest traffic signal along the major street is greater than 300 ft	Yes ☐ No ☐
<u>OR</u> , The proposed signal will not restrict the progressive movement of traffic.	Yes ☐ No ☐

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-5. Warrant 4, Pedestrian Four-Hour Volume Warrant Not Met

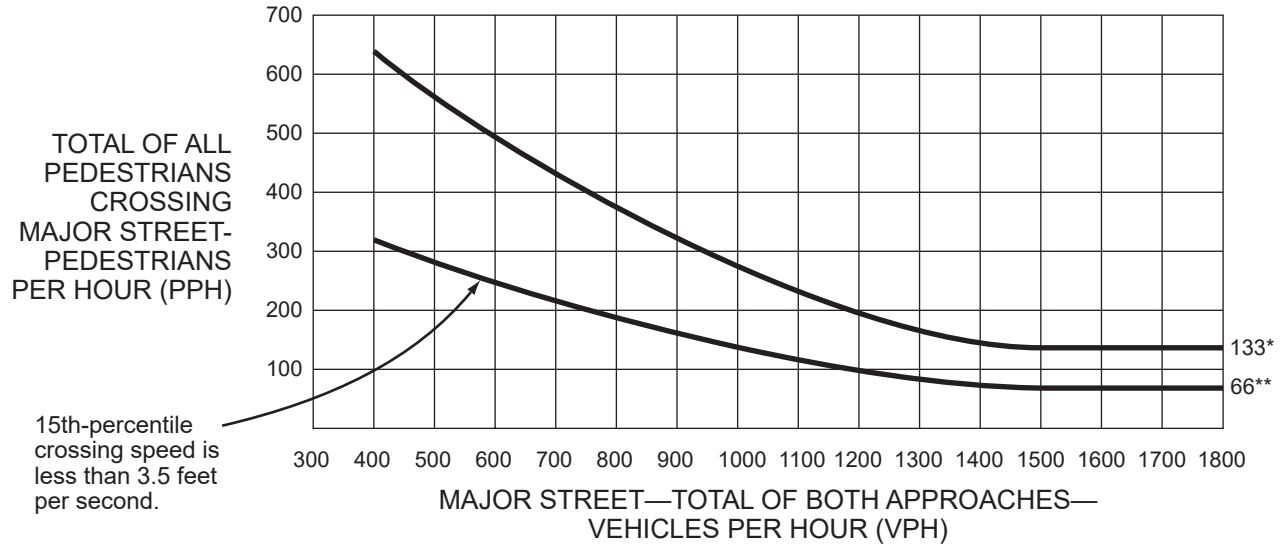


* 107 pph applies as the lower threshold volume

** 53 pph applies as the lower threshold volume if the 15th-percentile crossing speed is less than 3.5 feet per second

Figure 4C-6. Warrant 4, Pedestrian Peak Hour

Warrant Not Met



* 133 pph applies as the lower threshold volume

** 66 pph applies as the lower threshold volume if the 15th-percentile crossing speed is less than 3.5 feet per second

Figure C- Warrant Pedestrian Four-Hour Volume (0% Factor)

TOTAL OF ALL PEDESTRIANS CROSSING MA OR STREET

15th-percentile crossing speed is less than 3.5 feet per second.

MA OR STREET TOTAL OF BOTH APPROACHES VEHICLES PER HOUR (VPH)

TOTAL OF ALL PEDESTRIANS CROSSING MA OR STREET PER HOUR (PPH)

75

37

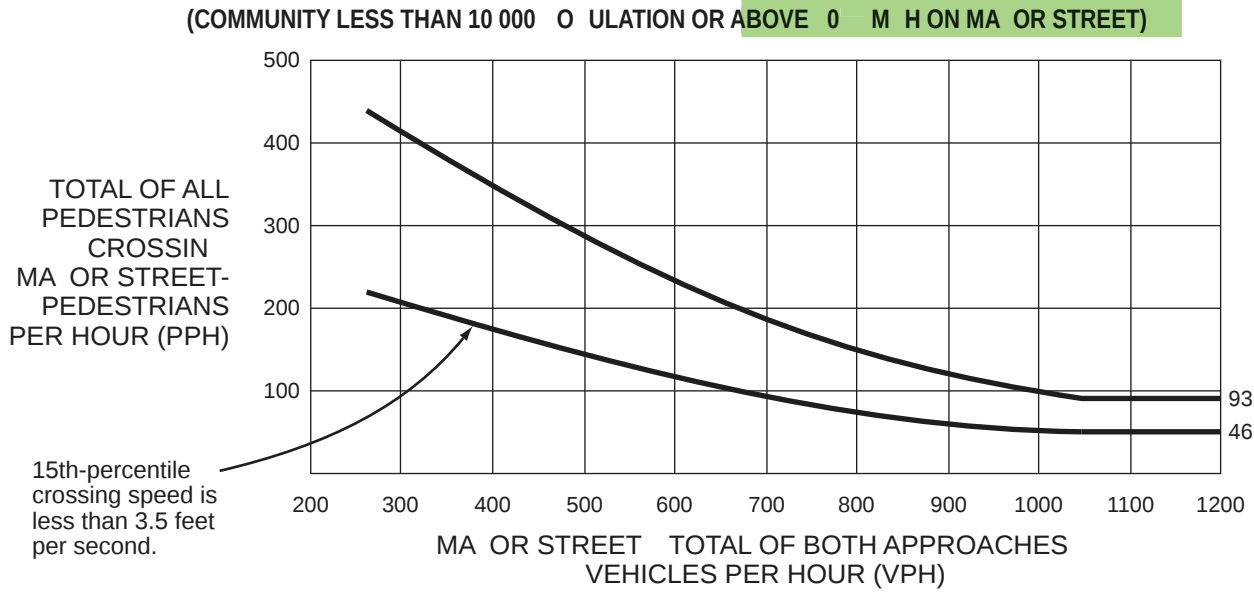
MA or Street Total of Both Approaches (VPH)	Total of All Pedestrians Crossing (PPH)	15th-percentile Crossing Speed (ft/sec)
200	~100	~40
300	~140	~60
370	~100	~100
400	~110	~90
500	~130	~70
600	~150	~50
700	~170	~40
800	~180	~37
900	~180	~37
1000	~180	~37

Refer to FHWA's List of Known Errors for error in the parenthesis below the figure title. Refer to Section 1A.04 for more details.

Warrant Not Applicable

Warrant Not Met

Figure C-8 Warrant pedestrian per Hour (0% Factor)



93 pph applies as the lower threshold volume
46 pph applies as the lower threshold volume if
the 15th-percentile crossing speed is less than
3.5 feet per second

Refer to FHWA's List of Known Errors for error
in the parenthesis below the figure title. Refer to
Section 1A.04 for more details.

Figure 4C-101(CA). Traffic Signal Warrants Worksheet (Sheet 4 of 5)

**WARRANT - Coordinated Signal System
(All Parts Must Be Satisfied)**

SATISFIED YES ☐ NO ☒

MINIMUM REQUIREMENTS	DISTANCE TO NEAREST SIGNAL	
≥ 1000 ft	N ft, S ft, E ft, W ft	Yes ☐ No ☐
On a one-way street or a street that has traffic predominantly in one direction, the adjacent traffic control signals are so far apart that they do not provide the necessary degree of vehicular platooning.		Yes ☐ No ☒
OR, On a two-way street, adjacent traffic control signals do not provide the necessary degree of platooning and the proposed and adjacent traffic control signals will collectively provide a progressive operation.		

**WARRANT - Crash Experience Warrant
(All Parts Must Be Satisfied)**

SATISFIED YES ☐ NO ☒

Fewer than 2 collisions per year reported 2020 - 2025

Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency.		Yes ☐ No ☐
REQUIREMENTS	Number of crashes reported within a 12 month period susceptible to correction by a traffic signal, and involving injury or damage exceeding the requirements for a reportable crash.	Yes ☐ No ☒
5 OR MORE		
REQUIREMENTS	CONDITIONS	✓
ONE CONDITION SATISFIED MINIMUM REPORTED CRASHES	Table 4C-2, Angle crashes and pedestrian crashes	
	OR, Table 4C-2, Fatal-and-injury angle crashes and pedestrian crashes	
	OR, Table 4C-3, Angle crashes and pedestrian crashes	
	OR, Table 4C-3, Fatal-and-injury angle crashes and pedestrian crashes	
ONE CONDITION SATISFIED 80%	Warrant 1, Condition A - Minimum Vehicular Volume	
	OR, Warrant 1, Condition B - Interruption of Continuous Traffic	
	OR, Warrant 4, Pedestrian Volume Condition Ped Vol $\geq 80\%$ of Figure 4C-5 through Figure 4C-8	

**WARRANT 8 - Road a Net or
(All Parts Must Be Satisfied)**

SATISFIED YES ☐ NO ☒

MINIMUM VOLUME REQUIREMENTS	ENTERING VOLUMES - ALL APPROACHES	✓	FULFILLED
1000 Veh Hr	During Typical Week day Peak Hour and has 5-year projected traffic volumes that meet one or more of Warrants 1, 2, and 3 during an average week day.		Yes ☐ No ☐
	OR During Each of Any 5 Hrs. of a Sat. or Sun	Veh Hr	
CHARACTERISTICS OF MAJOR ROUTES		MAJOR ROUTE A	MAJOR ROUTE B
Hwy. System Serving as Principal Network for Through Traffic			
Rural or Suburban Highway Outside Of, Entering, or Traversing a City			
Appears as Major Route on an Official Plan		✓	No
Any Major Route Characteristics Met, Both Streets			Yes ☐ No ☒

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 5 of 5)

Warrant Not Applicable

WARRANT - Intersection Near a grade Crossing
(Both parts A and B Must Be Satisfied)

SATISFIED YES ☐ **NO** ☒

<u>ART A</u> A grade crossing exists on an approach controlled by a STOP or YIELD sign and the center of the track nearest to the intersection is within 140 feet of the stop line or yield line on the approach. Track Center Line to Limit Line _____ ft	Yes ☐ No ☐
<u>ART B</u> There is one minor street approach lane at the track crossing - During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-9. Major Street - Total of both approaches: _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH AF (Use Tables 4C-2, 3, 4 below to calculate AF) _____ VPH <u>OR</u> There are two or more minor street approach lanes at the track crossing - During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point falls above the applicable curve in Figure 4C-10. Major Street - Total of both approaches : _____ VPH Minor Street - Crosses the track (one direction only, approaching the intersection): _____ VPH AF (Use Tables 4C-2, 3, 4 below to calculate AF) _____ VPH	Yes ☐ No ☐

The minor street approach volume may be multiplied by up to three following adjustment factors (AF) as described in Section 4C.10.

- | | |
|--|-----------------------------------|
| 1- Number of Rail Traffic per Day | Adjustment factor from table 4C-2 |
| 2- Percentage of High-Occupancy Buses on Minor Street Approach | Adjustment factor from table 4C-3 |
| 3- Percentage of Tractor-Trailer Trucks on Minor Street Approach | Adjustment factor from table 4C-4 |

NOTE: If no data is available or known, then use AF = 1 (no adjustment)

**Attachment C – Statewide Integrated Traffic Records System
(SWITRS) Data**

Report run on: 7/28/2025
Total Count: 4

252382 Jun 1, 2020 - Av. 2023/2024/2025 Crashes within 200 ft of Balboa
Av/Garnet Av and Morena Bl, City of San Diego, San Diego Co.

Primary Rd	MORENA BL	Distance(ft)	1	Direction		Secondary Rd	GARNET AV	NCIC	3711	State Hwy?	N	Route		Postmile Prefix		Postmile		Side of Hwy	
City	SAN DIEGO	County	SAN DIEGO	Population	7	Rpt Dist		Beat	113	Type	CalTrans Dist	Badge	SD7390	Crash Date	20210909	Time	1200	Day	THU
Primary Crash Factor	UNSAFE SPEED	Violation	22350	Crash Type	REAR END	Severity	INJURY	# Killed	0	# Injured	1	Tow Away?	N	Process Date	20210928				
Weather1	CLEAR	Weather2		Rdwy Surface	DRY	Rdwy Cond1	NO UNUSL CND	Rdwy Cond2		Spec Cond	0								
Hit and Run		Motor Veh Involved With	OTHER MV	Lighting	DAYLIGHT	Ped Action		Cntrl Dev	FNCTNG	Loc Type		Ramp/Int							
Latitude		Longitude		Local Rpt #	21205995	Case ID	9327543												

PARTY INFO																	VICTIM INFO									
Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre Crash	Dir	SW	Veh	Chp	Veh	Make	Year	Sp	Info	OAF1 Viol	OAF2	Safety Equip	Role	Ext Of Inj	Age	Sex	Seat Pos	Safety Equip	Ejected
1F	DRVR	49	M	A	HNBD		PROC ST	N	A	0700	-			2007	-	-	A 22350	E	M G							
2	DRVR	49	M	W	HNBD		STOPPED	N	D	2200	-			2018	-	-	E	-	M G	DRVR	COMP PN	49	M	1	M G	0

Primary Rd	BALBOA	Distance(ft)	1	Direction		Secondary Rd	MORENA BL	NCIC	3711	State Hwy?	N	Route		Postmile Prefix		Postmile		Side of Hwy	
City	SAN DIEGO	County	SAN DIEGO	Population	7	Rpt Dist		Beat	113	Type	CalTrans Dist	Badge	SD1529	Crash Date	20220603	Time	0830	Day	FRI
Primary Crash Factor	LANE CHANGE	Violation	21658A	Crash Type	HIT OBJECT	Severity	INJURY	# Killed	0	# Injured	1	Tow Away?	Y	Process Date	20220629				
Weather1	CLOUDY	Weather2		Rdwy Surface	DRY	Rdwy Cond1	NO UNUSL CND	Rdwy Cond2		Spec Cond	0								
Hit and Run		Motor Veh Involved With	FIXED OBJ	Lighting	DAYLIGHT	Ped Action		Cntrl Dev	FNCTNG	Loc Type		Ramp/Int							
Latitude		Longitude		Local Rpt #	22203205	Case ID	9460344												

PARTY INFO																	VICTIM INFO									
Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre Crash	Dir	SW	Veh	Chp	Veh	Make	Year	Sp	Info	OAF1 Viol	OAF2	Safety Equip	Role	Ext Of Inj	Age	Sex	Seat Pos	Safety Equip	Ejected
1F	DRVR	24	F	W	HNBD		RGT TURN	E	A	0100	-			2014	-	-	-	-	L G	DRVR	OTH VIS	24	F	1	L G	0

Primary Rd	BALBOA AV	Distance(ft)	1	Direction		Secondary Rd	MORENA BL	NCIC	3711	State Hwy?	N	Route		Postmile Prefix		Postmile		Side of Hwy	
City	SAN DIEGO	County	SAN DIEGO	Population	7	Rpt Dist		Beat	113	Type	CalTrans Dist	Badge	SD1666	Crash Date	20231112	Time	1450	Day	SUN
Primary Crash Factor	TOO CLOSE	Violation	21703	Crash Type	REAR END	Severity	INJURY	# Killed	0	# Injured	1	Tow Away?	N	Process Date	20240131				
Weather1	CLEAR	Weather2		Rdwy Surface	DRY	Rdwy Cond1	NO UNUSL CND	Rdwy Cond2		Spec Cond	0								
Hit and Run		Motor Veh Involved With		Lighting	DAYLIGHT	Ped Action		Cntrl Dev	NT PRS/FCR	Loc Type		Ramp/Int							
Latitude		Longitude		Local Rpt #	23206602	Case ID	9642721												

PARTY INFO																	VICTIM INFO									
Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre Crash	Dir	SW	Veh	Chp	Veh	Make	Year	Sp	Info	OAF1 Viol	OAF2	Safety Equip	Role	Ext Of Inj	Age	Sex	Seat Pos	Safety Equip	Ejected
1F	DRVR	24	F	W	HNBD		PROC ST	W	A	0100	-			2012	-	3	A 21703	E	M C							
2	BICY	47	M	W			PROC ST	W	L	0400	-			-	-	-	E	F	- -	BICY	SEVERE	47	M	1	P A	0

Primary Rd	MORENA BL	Distance(ft)	0	Direction		Secondary Rd	BALBOA AV	NCIC	3711	State Hwy?	Y	Route		Postmile Prefix		Postmile		Side of Hwy	
City	SAN DIEGO	County	SAN DIEGO	Population	7	Rpt Dist		Beat	114	Type	CalTrans Dist	Badge	SD1605	Crash Date	20241101	Time	2018	Day	FRI
Primary Crash Factor	IMPROP TURN	Violation	22107	Crash Type	OTHER	Severity	INJURY	# Killed	0	# Injured	1	Tow Away?	N	Process Date	20241121				
Weather1	CLEAR	Weather2		Rdwy Surface	DRY	Rdwy Cond1	NO UNUSL CND	Rdwy Cond2		Spec Cond	0								
Hit and Run		Motor Veh Involved With	NON-CLSN	Lighting	DARK - NO ST LTS	Ped Action		Cntrl Dev	FNCTNG	Loc Type		Ramp/Int							
Latitude		Longitude		Local Rpt #	24206647	Case ID	9753257												

PARTY INFO																	VICTIM INFO									
Party	Type	Age	Sex	Race	Sobriety1	Sobriety2	Move Pre Crash	Dir	SW	Veh	Chp	Veh	Make	Year	Sp	Info	OAF1 Viol	OAF2	Safety Equip	Role	Ext Of Inj	Age	Sex	Seat Pos	Safety Equip	Ejected
1F	DRVR	55	M	W	HBD-NUI		RGT TURN	E	C	0200	-			1957	-	-	E	-	P W	DRVR	OTH VIS	55	M	1	P W	0

Total Count: 1

Primary Rd		MORENA BL		Distance(ft)		30		Direction		S		Secondary Rd		JUTLAND DR		NCIC		3711		State Hwy?		N		Route		Postmile Prefix		Postmile		Side of Hwy																							
City		SAN DIEGO		County		SAN DIEGO		Population		7		Rpt Dist		Beat		113		Type		CalTrans		Dist		Badge		SD7795		Crash Date		20200907		Time		0155		Day		MON															
Primary Crash Factor		IMPROP TURN		Violation		22107		Crash Type		HIT OBJECT		Severity		INJURY		# Killed		0		# Injured		1		Tow Away?		Y		Process Date		20210121																							
Weather1		CLEAR		Weather2				Rdwy Surface		DRY		Rdwy Cond1		NO UNUSL CND		Rdwy Cond2				Spec Cond		0																															
Hit and Run				Motor Veh Involved With		FIXED OBJ		Lighting		DARK - ST LTS		Ped Action				Cntrl Dev		NT PRS/FCTR		Loc Type		Ramp/Int																															
Latitude				Longitude				Local Rpt #		20044486		Case ID		9151570																																							
PARTY INFO																VICTIM INFO																																					
Party Type		Age		Sex		Race		Sobriety1		Sobriety2		Move Pre		Dir		SW Veh		Chp Veh		Make		Year		Sp Info		OAF1 Viol		OAF2 Safety Equip		Role		Ext Of Inj		Age		Sex		Seat Pos		Safety Equip		Ejected											
1F		DRVR		998		M		H		HBD-UI		PHYS		PROC ST		N		A		0100		-		2003		-		-		E		M		L		-		DRVR		SEVERE		998		M		1		L		G		0	